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# *The Scottish Naturalist*

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*A Journal of Scottish Natural History*

# THE SCOTTISH NATURALIST

Founded 1871

A Journal of Scottish Natural History

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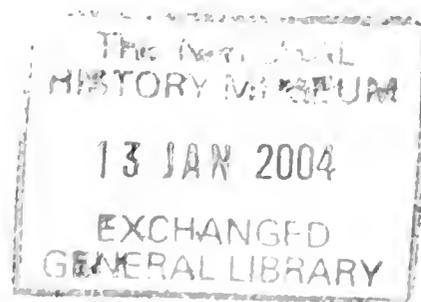
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# THE SCOTTISH NATURALIST

Founded 1871

A Journal of Scottish Natural History

With which is incorporated *The Annals of Scottish Natural History*  
and *The Western Naturalist*

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115th Year

2003

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**THE SCOTTISH NATURAL HISTORY LIBRARY**

# ROBERT BROWN'S MANUSCRIPT DESCRIPTIONS OF BRITISH AND IRISH PLANTS (B.93) (1792–1800), WITH INDEXES TO BOTANICAL NAMES AND PLACES

## 1. MANUSCRIPT DESCRIPTION AND DISCUSSION

By E. CHARLES NELSON

*Wisbech, Cambridgeshire*

### Introduction

The botanical manuscripts of the Scottish botanist Robert Brown (1773–1858) have not received much attention, except those relating to the voyage of HMS *Investigator* (1801–1805). One reason is that Brown's handwriting is often hard to decipher, making any concerted study difficult and time-consuming. The recent publication of Brown's *Investigator* diary (Vallance, Moore and Groves, 2001) prompted me to resume work which I had commenced several decades ago on Brown's diary for the year 1800, the year before he embarked on *Investigator*, when he was in Ireland with his regiment. A transcript of this 1800 diary has been completed (some extracts have appeared elsewhere; see e.g. Bowering, Reilly and Whittaker, 1995; Nelson, 1998) and eventually it is hoped to publish an annotated edition.

In his 1800 diary (manuscript **B.12** in Moore and Beasley, 1997), Brown frequently recorded his botanical observations and often referred to transcribing plant descriptions. To enable me to annotate the diary, it was desirable also to study any other manuscripts which related to his Irish botanical investigations, especially those which contained the draft, or the transcribed, descriptions. Thus this account of **B.93** (see Moore and Beasley, 1997), one of Brown's botanical manuscripts held in The Natural History Museum, London, described as:

**B.93.** A brown cloth and leather-bound folio box, 268 × 114 × 379mm, lettered on spine 'R BROWN — DESCRIPTIONS OF PLANTS 1794–1798'.

The contents consist of a leather-bound volume of plant descriptions, lettered on spine 'DESCRIPTIONS OF PLANTS 1794–1798'. Contains 843 folios.

My research on this manuscript has been carried out mainly using a photocopy of the entire volume which was made in the early 1980s and which, with a photocopy of the 1800 diary, is now deposited in the library of the National Botanic Gardens, Glasnevin, Dublin. My thanks are due to Mrs Judith Diment, at that time Botany Librarian in the British Museum (Natural History) London (now

called The Natural History Museum), for making these copies available. I have also seen the original manuscript, and used it to verify some particulars for this paper.

### B.93 "DESCRIPTIONS OF PLANTS 1794–1798"

Moore and Beasley (1997) were not the first authors to refer to this particular manuscript, and because the various descriptions of the manuscript differ, it is desirable to note previous commentaries.

Needless to say, in his biography of Robert Brown, Mabberley (1985) made use of B.93 which he referred to on several occasions in different ways. On page 28 Mabberley stated that "In the same year [1794], Brown began another book<sup>44</sup> of plant descriptions which are models of botanical meticulousness." Mabberley's endnote 44 on page 30 (which I will quote later) acknowledged B.93. Mabberley also used information from B.93 in the next chapter about Brown's service in the Fifeshire Fencibles, referring to the manuscript in endnote 5 on page 59 simply as "MS plant Descriptions – BM(NH)". Endnote 44 on page 30 needs to be quoted in full because it describes two different manuscripts –

Both the Botanic Garden MSS were salvaged for BM(NH) by James Britten, who wrote on the flyleaf of the double volume, 'They were found by me on Parsons' [*sic*] Bookstall in the Brompton Road in the sixpenny box in 1884'. This fortunate discovery may reflect the apparent confusion over Brown's papers, some of which were presented to Bloomsbury by Mrs Bennett, the rest (the 'Botanical Correspondence') going to South Kensington with the collections in the 1880s. Some papers and books were long uncatalogued and kept in the Keeper's Room, whence, it would appear, these two volumes escaped.

It is possible to reconcile Mabberley's account of "the Botanic Garden MSS ... [in] two volumes" by referring to page 22 where he wrote that "In 1792, Brown started writing out descriptions of plants in the old Edinburgh Botanic Garden, as well as collecting fungi in the Edinburgh area, many of them probably new records for Britain, giving them manuscript names". This is a clear reference to another manuscript volume, **B.13** of Moore and Beasley (1997), which bears the title "R. BROWN DESCRIPTIONS 1792–, HIGHLAND JOURNEY, 1793", and which contains "descriptions of plants in the Edinburgh Botanical Gardens or found in the neighbourhood May 1792 ...." (Moore and Beasley, 1997). The second of Mabberley's two "Botanic Garden MSS" volumes is B.93.

In Bridson, Phillips and Harvey (1980), Robert Brown's manuscripts are briefly listed under number 229.286; "descriptions of plants, 1794–98" corresponds to B.93, while "descriptions 1792–93" corresponds to B.13 (which does not contain any references to Ireland or Irish plants.)

Mabberley, in end note 44, quoted from James Britten's signed annotation on the verso of the front right-hand endpaper of B.93, but by not quoting the entire annotation Mabberley has made a confusing account even more confused. Unfortunately Britten's inscription has recently been removed from this volume, presumably when conservation work was carried out. It was written in pencil and read (Figure 1):

This volume contains the two referred to in Journ. Bot. 1888, 285.  
They were found by me on Parsons's book-stall in the Brompton Road,  
in the sixpenny box in 1884.

Britten (1888), reviewing the recently issued *Flora of the North-east of Ireland* by S. A. Stewart and T. H. Corry, for the *Journal of Botany*, wrote as follows:

Mr. Stewart does not seem to be aware that Robert Brown during his residences in Ireland in 1797 and 1800, paid much attention to the botany of the districts in which his regiment was stationed. I was fortunate enough to pick up on a book-stall, four years ago, *two folio volumes* containing most minute and careful descriptions of *406 species of plants*, originally drawn up by Brown and subsequently transcribed by him. [Present author's italics]

Taken together, Britten's manuscript annotation and his published comments indicate that the two folio volumes he obtained from Parsons' book-stall were soon bound into a single volume. This must have happened during his lifetime, and most probably during his employment in the Botany Department of the British Museum (Natural History) from where he retired in 1909; he died in 1924.

Thus Mabberley's statement that "Both the Botanic Garden MSS were salvaged for BM(NH) by James Britten" confuses Britten's "two folio volumes" (later bound in one, i.e. B.93) with the B.13 (also titled "Descriptions of plants ...") *plus* B.93. There is no evidence that Britten purchased B.13, for had this also come from Parsons' book-stall in 1884, Britten would surely have written in 1888 that he had bought three volumes.

Britten (1888) himself made some confusing remarks. He described the two folio volumes as "containing most minute and careful descriptions of 406 species of plants" (Mabberley (1985: 35) repeated this assessment). But, as this paper clearly demonstrates, B.93 contains descriptions of many more than 406 plants – the database on which I have recorded all the descriptions has exactly 1,020 entries for descriptions (as well as entries for other items that are not descriptions: three indexes, three letters, and an extract from a publication by Persoon) while the

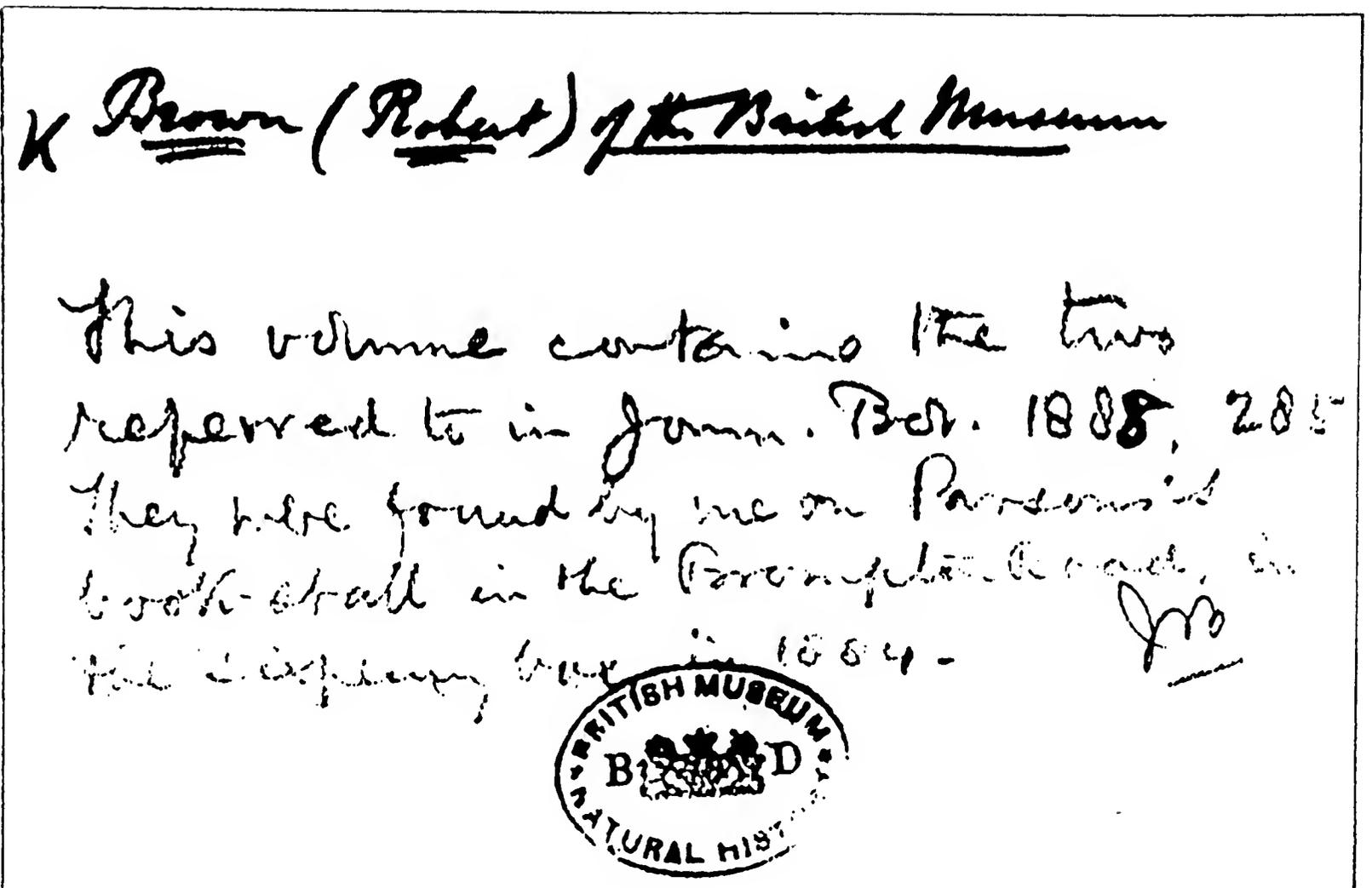


Figure 1

James Britten's annotation in **B.93**, in pencil,  
 reproduced from the photocopy made in the early 1980s.  
 (electronically enhanced)

This inscription is no longer to be seen in the bound volume  
 in The Botany Library, The Natural History Museum, London.  
 (see text, page 117)

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index to plant names (see Nelson, 2003a) contains 944 entries. Even allowing for duplicate descriptions there are not less than twice as many species described in B.93 as stated by Britten (1888). Why and how did he compute 406? The explanation seems to be that he added 169 and 237, but to understand where he obtained these numbers it is necessary to explain in more detail what B.93 contains.

### Detailed description of B.93

B.93 is not a single, integrated volume composed of uniformly cut and trimmed pages. It is a miscellaneous gathering of folios that clearly were never originally in, nor were they taken from, a single volume. In this instance it is a great pity that Britten's description is so vague, because there is no way now of telling what comprised the two folio volumes found on Parsons' book-stall.

Having been through this volume page by page, I can attempt to reconstruct the miscellany of original manuscripts which were gathered into this volume after Britten purchased them. It should be noted that the page numbers which are used here must have been added after the folios were bound into the single volume. It must also be stressed that some pages were not numbered and there are several instances of repeated and omitted numerals, so that the final page number 843 does not equal the actual number of pages; Moore and Beasley (1997) mistakenly stated that B.93 contains 843 *folios*, i.e. 1,686 pages.

The following distinct separate 'fascicles' can be recognized within B.93:

(A) Pages 1–68: the pagination is erroneous because number 58 was skipped (57 is followed by 59). The page numbered 68 is really the sixty-seventh, but the final page of this 'fascicle' is blank and was not numbered. In the top right-hand corner of page 1 someone, most likely Brown himself, has written "Part I 46". On page 68 there is an index to the descriptions, in Brown's handwriting. "Part I" contains 97 descriptions, each of which is numbered with an Arabic numeral, and all are written in Brown's neat handwriting.

The manuscript index tallies with the 97 descriptions, but Brown himself miscounted the pages and omitted to use number 29 (he did not write the page numbers on the folios himself), so his pagination (like the modern one) is one out.

(B) Pages 69–161: the pagination is correct except for the last page, the verso of page 161, which is blank and is not numbered. This 'fascicle' thus comprises 94 pages. Brown himself wrote "Part II" on the first page (69) and also numbered the pages up to 65 (page number 133 of the volume), and on last page (161) again provided an index that corresponds to the section. The descriptions bear a

sequence of Roman numerals from I to XCI. (The total number of descriptions to page 161 is thus 188.)

(C) Pages 162–260: the pagination is unusual because the first and all subsequent right-hand pages (folio recto) have even (not odd) numbers. However it is correct except for the last page, the verso of page 260, which is blank and is not numbered. Brown wrote "Part III" on the first page (162). An unusual feature of this 'fascicle' is that the leaves comprising pages 234–260 are substantially longer than those of the preceding pages, but there does not appear to be any discontinuity in the text between page 233 and page 234.

Again the descriptions are numbered with Roman numerals, but because Brown used XLII twice, "XLII *Adoxa Moschatellina*" (page 194) and "XLII *Saxifraga sarmentosa*" (page 195), there is one more description (i.e. 171) than the final numeral (CLXX) suggests. (The total number of descriptions up to page 260 is thus 359.)

(D) Pages 261–597 comprise a miscellaneous collection of folios, of different shapes and sizes, which must have come from different sources. It is difficult to detect sub-groups of folios using the photocopied pages, although a thorough examination of watermarks, paper colour and texture, page dimensions, and patterns of damage in the original should allow separate clusters of leaves to be distinguished. A brief examination of the original manuscript showed that, for example, pages 350a–401 appear to form a discrete section, as do pages 405–497.

The following need to be noted: page 309 recto has recently been numbered 308a (this number was not on the photocopy I used); page numbers 402, 403, 404, 510 and 511 seem to have been skipped because there do not appear to be missing folios; pages 276, 342, 442, 470, 474, 508, 535, 543, 575 and 587 are blank.

Among the leaves is one (pages 596–597) which must have come from a lost manuscript containing at least 71 pages bearing descriptions of at least 99 cryptogams, because there is a fully numbered index written on the lower part of page 596.

Among the descriptions in this miscellany of folios are Brown's notes (pages 394, 568–571) on a collection of marine algae from Barbados, collected during 1797 by the Scottish physician Dr. William Wright F.R.S. (1735–1819). Brown examined these specimens on 13th August 1798 during a visit to the British Museum, London (Mabberley, 1985: 40).

(E) Pages 598–621: the pagination is unusual because the first and all subsequent right-hand pages (folio recto) have even (not odd) numbers. The 24 pages contain descriptions of Scottish cryptogams, some of which came originally from Dr.

Archibald Menzies' herbarium (pages 619–620); these were not specimens gathered during Menzies' overseas voyages.

(F) Pages 622–843: the pagination is a little awry. There are two folios numbered 738, but the number 758 was not used so by page 759 the pagination is in step again. Once again, Brown himself numbered (using Arabic numerals) each description. He used number 44 twice, for *Teucrium fruticans* (page 665) and for *Veronica anagallis* (page 667), so there is one more description (i.e. 238) than the final numeral (237) on page 843 suggests. Combining A, B, C and F (see discussion below), the total number of plants descriptions in these 'fascicles' is 597.

(G) Hand-written index to the names in the volume; 13 pages. This index has been written on what evidently were the blank pages at the end of 'fascicle' F because the paper is exactly the same, with the same watermarks (including the date 1794). However the handwriting is not Robert Brown's, and the index cannot have been compiled until this compilation of papers was completed. The handwriting has not been identified and may be that of one of the Museum's secretaries. The index contains a small number of errors in stated page numbers and a few names were omitted. All the same, it provided a valuable check-list against which I was able to check my database, and the index (published here) generated from it.

'Fascicles' A, B, C and F are similar in style, comprising neatly written, numbered descriptions. There is internal evidence that they represent some of the "volumes" into which Brown transcribed his plant descriptions. The clues are on pages 329 and 385 in the descriptions of *Milium paradoxum* and *Telephium imperati*. To the former description, Brown added "transcribed ... Adde & corige descripti No 174 Vol IV Mss Nost data", and on page 788 (which is within 'fascicle' F) the description of *Milium* is numbered 174. To the second, Brown added "desc in N 114 Vol IV Mss adden & corrig", and again on page 737 (which is also within 'fascicle' F) the description of the *Telephium* is numbered 114.

## Robert Brown's Botanical Explorations

### SCOTLAND 1792–1795

Mabberley (1985) accounts in some detail for the period of Brown's life covered by B.93, 1792–1800. During those nine years Brown was a student at the University of Edinburgh (1790–1793) but he abandoned his medical studies and in 1794 enlisted in the Fifeshire Fencibles, being commissioned Ensign on 20th October 1794 (the date on which the regiment was founded). The regiment was

ordered to Ireland, and so from May 1795 until December 1800, apart from several extended periods of leave when he was in Britain, Brown was stationed in various towns in Ireland.

The earliest dated descriptions included in B.93 are for plants gathered in 1792 (not 1794 as suggested by the spine inscription; see Moore and Beasley, 1997), and indicate that Brown was collecting plants at Burntisland and St. Andrews (Fifeshire) in August, on his way north to Invercauld House (Perthshire), as described by Mabberley (1985: 22–23). On Carn na Drochaide (2,681ft), near Braemar, during August he collected *Saussurea alpina* (BM). In September, Brown was at St. Cyrus, on the coast north of Montrose (his home town). In October he was at Pearsie, west of Montrose.

Brown returned to Edinburgh and his studies, and during the late winter and spring of 1793 he botanized in and around Edinburgh. B.93 includes descriptions of plants from the King's Park (January, March, May), Colinton (May), Salisbury Crags (May) and the Pentland Hills (April). As related by Mabberley (1985: 23–26), during the summer of 1793 Brown again went north via St. Andrews to Clunie (Perthshire) which he used as a base for forays into the glens and mountains. He collected in the River Isla valley. In early August, Brown and the Revd. William MacRitchie (see Mabberley, 1985: 24–25) walked west to Glen Lochay ascending "Malghyrdy" (Meall Ghaordie or Meall Ghaordaidh: 3,410ft) and then "Ben Teskerny" (Beinn Heasgarnich: 3,530ft). A few days later they were on Ben Lawers, before returning to Clunie. In September, Brown gathered *Lobelia dortmanna* in the loch at Clunie (BM). The diary of this botanical journey is in B.13 (Moore and Beasley, 1997). By October 1793 Brown was back in Edinburgh.

It is not known whether Brown had any gainful employment between abandoning his medical studies in 1793 and enlisting in the Fifeshire Fencibles on 20th October 1794 (Mabberley, 1985). That he remained in Edinburgh through the winter of 1793–1794 into the summer of 1794 is evident from the numerous plant descriptions in B.93 dated within that period. As in previous years, Brown obtained plants to study from the Edinburgh Botanic Garden and Dickson & Co.'s nursery, both situated on Leith Walk. In 1792, according to B.93, he had had access only to plants in the Edinburgh Botanic Garden (see Fletcher and Brown, 1970, for a history of this garden). Is it possible that he worked as a gardener during the interval between leaving university and enlisting? If this was what Brown did, it is very possible that he was employed in the Botanic Garden; in B.93 there are 269 dated descriptions for plants gathered there between October 1793 and 10th March 1795. That he had access to so many plants from the collections in the Leith Walk Botanic Garden suggests that Brown had favoured treatment, at least from the Principal Gardener, Robert Menzies, or that he himself worked there

in some capacity. It might be that Brown worked in Dickson's nursery (see Henrey, 1975, 2: 399–400) because 78 dated descriptions show that Brown also had seemingly unrestricted access to the valuable stock plants in the nursery between April and October 1794, and in B.13 there are six descriptions made from Dickson's plants dated June and November 1793.

That Brown maintained contacts with Edinburgh gardeners during this interval between university and army is evident from other records in B.93. In June and July he obtained six plants from Andrew Leslie's nursery, which was situated in Broughton Park, Bonniton Road, Edinburgh (see Henrey, 1975, 2: 402–403). Private gardens also yielded specimens. Brown visited Morden in June 1794 and obtained eleven plants from the glasshouses there. From a Mrs Scot he obtained the Canary Islands broom, *Cytisus foliolosus* (= *Adenocarpus foliolosus*) (Mabberley, 1985).

Perhaps the most curious records are those from Dr. John Walker's garden at Colinton. Brown had enrolled for Professor Walker's natural history classes at the University of Edinburgh in 1792; the course of weekly lectures began in November and thus would have ended in May 1793 (Eddy, 2003). There is no indication in B.93 that Brown visited Walker's garden during that period, but he did go to Walker's garden in March, October and November the following year, 1794. On the later visits, he obtained specimens of four willows, three of which were exotic species that were labelled with names attributed to Walker – *Salix argentea* Walker, *S. lucida* Walker and *S. ligustrifolia* Walker. (When he was in Ireland, Brown maintained contact with Walker, sending him specimens on at least one occasion in 1800.)

In August 1794, Brown left Edinburgh for a botanical trip which included Cortachy, the River Isla, and Lochnagar, as well as Beinn a' Bhuid beyond Invercauld. He also managed to fit in, again in the company of the Revd. William MacRitchie, Ben Lawers, Meall Ghaordaidh and Beinn Heasgarnich, and B.93 contains a description of *Salix myrsinites* from "Craig oore in Breadalbane" (? = Creag Mhor: 2,359ft).

As Mabberley (1985) noted, Brown was back in Edinburgh in September 1794, continuing to describe plants from the Botanic Garden, Walker's garden and Dickson's nursery. The last, for the time being, descriptions from Dickson's collection were made in October. On 20th October Brown enlisted in the Fifeshire Fencibles which had its headquarters at Cupar ("Coupar" in Mabberley, 1985). If Brown was based at Cupar, a town in central Fifeshire about 40 miles (by road) from the centre of Edinburgh, he must subsequently have made several trips to

Edinburgh, where his widowed mother presumably still lived, because in November and December 1794, January 1795 and March 1795 he gathered specimens from the Botanic Garden, including *Indigofera* sp. on 30th December 1794 and *Glycine bimaculata* (*Hardenbergia monophylla*) on 10th March 1795, both from the "Dry Stove". The *Glycine* is the last specimen recorded in B.93 from Edinburgh Botanic Garden – although Brown was on sick-leave in Edinburgh early in 1797 this volume does not include any more descriptions derived from plants grown in the Botanic Garden.

Robert Brown passed through Girvan, *en route* to Ireland, on 8th May 1795 (Mabberley, 1985: 28) (see Table 1, pages 126-127, for the places where Brown stayed or was stationed during the succeeding six years). Brown served as a regimental surgeon in the Fifeshire Fencibles during his years in Ireland.

#### IRELAND 1795–1800

##### 1795: Donaghadee, Londonderry, Limavady, Coleraine, Giant's Causeway

Soon after arriving in Ireland in May 1795, Brown was at Donaghadee, County Down, where he befriended a Mr. Arbuckle and obtained four exotic plants from his garden – plants named *Agapanthus umbellatus*, *Blechnum*, *Cactus pendula* (*cf.* Mabberley, 1985: 31–32) and *Cineraria lanata* are described in B.93. Mr. Arbuckle was undoubtedly the person referred to by Hincks (1829) as "the late Mr. Arbuckle, collector of Donaghadee" who also became acquainted with John Templeton in 1795 (Hincks, 1828: 405). Arbuckle and Templeton had "a frequent correspondence for some years", and together often visited the gardens of the Earl of Clanbrassil at Tollymore in Bryansford near Newcastle, County Down, and also near Dundalk, County Louth. Brown visited Lord Clanbrassil's Dundalk garden after breakfast on 15th July 1800, so he could not have been at Tollymore that day, as Mabberley (1985: 55) suggested.

On 6th August 1795, Brown travelled between Limavady and Londonderry – presumably his regiment was based in Londonderry for several months – because, according to B.93, he collected *Pinguicula lusitanica* that particular day "on a bog by the road side about half way between London-Derry & Newtown-Limavady ..." (the specimen is extant in **BM**, with original label; Mabberley, 1985: 31; Hackney, 1992). A specimen of *Apium nodiflorum* (**BM**, with original label reading "Sium, nodiflorum? repens At the Giants Causeway, Ireland Augt 1795 ..."), recently discovered by D. T. Moore, indicates that he also went to the Giant's Causeway that month, while a specimen of *Drosera anglica*, also dated August 1795 and labelled "In Bogs between Newtown-Limavady & Coleraine, Ireland ..." (**BM**,

with original label) (Britten, 1888) suggests Brown also visited Coleraine – Limavady and Coleraine are situated on the road which Brown would have taken between the Giant's Causeway and Londonderry.

Neither *Drosera anglica* nor *Apium nodiflorum* are described within B.93. In the latter case, the original label does bear the annotation 'Desc in Mss', whereas the *Drosera* label does not.

It is notable that B.93 does not contain any dated descriptions for the fifteen months between 27th September 1795 (*Erodium moschatum*, "abundantly at the West end of the Suburbs of London-Derry": see Mabberley, 1985: 31) and January 1797. Does this imply that Brown was too busy with medical duties to have time to spare for botanical rambles, or is it merely a chance lacuna and Brown's botanical observation during these months were recorded in another, lost manuscript? Perhaps the absence of descriptions implies that Brown was confined to barracks, unable to ramble through the Irish countryside to gather plants?

#### 1797: First records for County Antrim

In December 1796 Brown was granted sick-leave (Mabberley, 1985: 33) and travelled from Carrickfergus back to his home to Edinburgh. Presumably his regiment was based in Carrickfergus from the end of 1796 into the spring of 1797, because Brown returned there once his sick-leave had expired. As Mabberley noted (1985: 33), despite Brown's presumed ill health, he resumed his botanical activities while in Edinburgh during January and February 1797, describing 19 plants from Dickson's "Lieth Walk" nursery – Brown consistently misspelled Leith – and also making herbarium specimens (see Mabberley, 1985: 33). B.93 scripts do not indicate that Brown went to Edinburgh Botanic Garden, but show him studying Dickson's collection of Cape heaths, *Erica* species, from South Africa which were becoming increasingly fashionable, among other exotics. His descriptions include three nameless *Erica* species, and also *Erica capitata*, *E. curviflora*, *E. parviflora*, *E. pubescens* and *E. ramentacea* as well as the European species *E. australis*. Three specimens collected by Brown during December 1796 in Dickson's nursery have been traced in **BM** by D. T. Moore: *Erica curviflora*, *E. ramentacea* and *E. cyathiformis* (this has two labels, one with the name "Erica caffrariae" and the other with "Erica caffra" which correspond to the descriptions in B.93, pages 624–625).

Brown was back in Ireland before the end of March 1797 (Mabberley, 1985: 34) and, according to dated descriptions in B.93, he was based at Carrickfergus until July at least. On 6th April he gathered a seaweed on the local shore. On 13th

	1795	1796	1797	1798	1799	1800
January	Edinburgh		Edinburgh (29)	Ballintoy (23, 26)	Edgbaston	Londonderry (12-31)
February			Edinburgh		Dudley	Londonderry (1-28)
March	Edinburgh (10)			Leslie Hill, Ballymoney (19)		Londonderry (1-14, 17-31) Faun (14) Rathmullan (14, 15, 16) Macamish (15) Knockaller (16) Dunrea (16)
April			Carrickfergus (6-13)	Ballymoney (7) Carrickfergus (13)		Lifford (1) Strabane (2-3) Londonderry (4-30)
May	Ayt (6) Girvan (8) Donaghadee		Carrickfergus (30)	Carrickfergus (6, 9) Ballymena (7) Belfast (23-25)	London (14)	Londonderry (1-9, 21-24) Buncrana (9) Dunrea (10-21, 24-31) Knockurris (12) Buncrana (21)
June			Carrickfergus (16, 30) Belfast	London (15)	London (4)	Dunrea (1-7) Knockaller (1) Bulbin (3) Londonderry (7-30) Sharon (19) Cumber (30)
July			Carrickfergus	Brompton London (17)	Castleblaney ( <i>vide</i> 1800 diary)	Londonderry (1-9, 23-31) Strabane-Newry (9-13) Newry (14) Dundalk (15) Slieve Gullion (15) Newry (16) Rostrevor (16) Carlingford Mountain (17) Baronscourt (22) Strabane (21-23)

August	Limavady-Coleraire ( <i>Drosera</i> BM) Londonderry Giant's Causeway ( <i>Apium</i> BM)	Lisburn ( <i>vide</i> Mabblerley, 1985: 31)	Larne (7) Fairhead (30) Giant's Causeway	Turnham Green (25)	Londonderry (1-7) Strabane (7) Omagh (8-11) Augher (11) Monaghan (12) Castleblaney (13) Ardee (14) Navan (15) Trim (16-17) Leixlip (18-24) Maynooth (24-28) Kilcock (28-310)
September	Londonderry		Ballantoy (21, 28) Ballycastle (22-24) Brochy (29) Ragherry Island Giant's Causeway	London (3) Chelsea (11)	Kilcock (1-3, 6-27) Dublin (3-5, 18-21) Glasnevin (4, 5, 19, 20) Lucan (5) Leixlip (5) Kilcullen (27-30)
October			Ballintoy (1-3) Ballycastle	London	Kilcullen (1-19, 25-31) Dublin (19-25)
November			Ballintoy	Bath (1, 25) Bradford-on-Avon (2) Worcester	Kilcullen (1-21) Dublin (21-30) Dargle Glen Luttrellstown
December		Carrickfergus Edinburgh (sick leave)	Ballintoy (1) Whitepark Bay (20)	Wolverhampton	Kilcullen (1-18) Dublin (18-21) Chester (22) London (25)

Table 1

Places where Robert Brown is known to have stayed or been stationed, with dates, 1795-1800.

Numerals in brackets after place-names are the dates recorded in his manuscripts;

thus he was in Edinburgh on 29th January 1797.

Dates based on specimens are also included: **BM** indicates that the specimen is in the

Botany Department, The Natural History Museum, London.

April he found a moss which he identified as *Fontinalis alpina* "near the waterfalls about 2 miles from Carrickfergus". In May he noted that *Apium graveolens* grew "in the greatest abundance about Carrick Fergus" – this is a previously unpublished first county record for County Antrim (cf. Hackney, 1992). Other apparent first county records contained in B.93 for some of the less-common flowering plants of County Antrim are as undernoted:

*Arenaria serpyllifolia* – "near Carrick Fergus. May 1797".

*Erodium moschatum* – "near Carrick-Fergus July 1797".

X *Festulolium loliaceum* (as *Poa loliacea*) – "on Walls at Carrick Fergus & at the shore at Bally Castle 1797".

*Parietaria judaica* (as *P. officinalis*) – "on old Walls at Carrick-Fergus May 30<sup>th</sup> 1797". This predates the record quoted by Hackney (1992: 233) by fourteen years.

*Umbilicus rupestris* (as *Cotyledon umbilicus*) – "on the Castle Rock of Carrick-Fergus. June 30<sup>th</sup> 1797".

*Zostera marina* – "thrown on the shore at Carrick-Fergus June 1797". (Brown studied *Zostera marina* with his Cuff Compound Microscope – "Nulla rima mihi fuit obvia Lustrata lente N1 micros: Cuff" (page 815; see Figure 2).)

Brown also recorded *Anagallis arvensis*, *Anthriscus caucalis* (as *Caucalis anthriscus*), *Carex remota* and *C. sylvatica*, *Crataegus monogyna* (as *C. oxycantha*), *Fumaria capreolata*, *Glyceria fluitans* and *Moehringia peploides* (as *Arenaria peploides*) in Carrickfergus and its hinterland. As before at Donaghadee, he was welcomed by gardeners. Mr. Craig's greenhouse yielded four exotics including another unnamed *Erica* and, on 16th June, *Mesembryanthemum hispidum* (= *Drosanthemum hispidum*; see Mabberley, 1985: 34). Brown gathered Sweet Bay (*Laurus nobilis*) from the garden of Castle Dobbs, the seat of the Dobbs family (see Rankin and Nelson, 1990), a short distance outside Carrickfergus.

On 7th August Brown botanized at Larne, noticing *Sagina maritima* for the first time (see below). Other descriptions within B.93 indicate that by late August 1797 Brown and his regiment had been moved to the extreme northeast of County Antrim, to Ballycastle or Ballintoy. All the plants Brown gathered and described between 30th August 1797 and 26th January 1798 originated from Ballycastle and Ballintoy and their neighbourhoods. Fully-dated scripts exist for these localities: Fair Head (30th August), Ballintoy (21st and 28th September, 1st December 1797, 23rd and 26th January 1798), Ballycastle (22nd and 24th September), Brochy (29th September), and Whitepark Bay (20th December). He also visited the Giant's Causeway again.

201 *Zostera marina*

Spadix graminea linearis univalvis per axem longitudina-  
lem internam dehiscens

Spadix linearis membranaceus marginibus inflexis

Capitula secunda, alterna et proximate, apice pedicello bre-  
visimo affixae, sursum in stylo simplici capite brevioribus  
leviter aduncum productae; pallide virescentes pendulae gla-  
berrimae oblongo-olivaformes, leviter depresso-striatae, haud om-  
nino compressae uniloculares ovales

Receptaculum proprium nullum, semen immediate sub no-  
tellum affixum umbilico circulari depresso

Semen oblongum oliviforme tenuiter depresso-striatum  
albicans haud omnino compressum

Integumentum simplex modice crassiusculum hysteriacae  
cornaceum facile separandum

Albumen nullum

Vitellum cotyledoneum, carnosum, album, semine haud  
conforme, superiore integerrimum truncatum, basi leviter emar-  
ginato rotundato paulo angustiori concavus quasi involuto

Embryo filiformis albo-hyalinus uncinato-duplex paulo  
superius medium concavitate aequo longitudinalis vitelli insertus  
unde recto cursu ad ejus basin productus, deum refractus  
fere ad apicem truncatum vitelli ascendens, in apicem acutum  
resinens.

Observ: Basis vitelli haud emarginata neque bilobata sed in  
lobulum parvum rotundatum resinens

Nulla vena mihi fuit obvia

Lustrata lente & 1 micra: luff

Description from plants thrown on the shore at Carrick-Fer-  
gus June 1797 RB

Figure 2

Robert Brown's manuscript description of *Zostera marina*.

(from B.93, page 815) (Reduced  $\times 0.8$  approx.)

Note the reference to the Cuff Compound Microscope.

(third line from end)

Among plants Brown studied, and described in B.93, from this part of County Antrim are:

*Blysmus rufus* (as *Schoenus rufus*) – "in salt marshy ground occasionally covered at high water near Ballantoy Sep<sup>r</sup> 1797" (see Britten, 1888; Hackney, 1992: 343).

*Cakile maritima* (as *Bunias cakile*) – "on the beach at Ballantoy Sep<sup>r</sup>: 1797" (see Britten, 1888; Hackney, 1992: 133).

*Centaurium erythraea* (as *Chironia centaureum*) – "about Bally-Castle Sep<sup>r</sup>: 1797".

*Gentianella campestris* (as *Gentiana campestris*) – "in the neighbourhood of Bally Castle Sep<sup>r</sup> 1797".

*Hymenophyllum wilsonii* (as *H. tunbridgense*) – "Brochy Sep<sup>r</sup> 29 1797".

*Jasione montana* – "in the vicinity of Bally Castle Sep<sup>r</sup> 1797".

*Lavatera arborea* – "on the shore at Ballantoy & grows also abundantly in the Sheep Island about ½ mile from Ballantoy shore – Sep<sup>r</sup>: 1797" (Britten, 1888; Hackney, 1992: 162).

*Samolus valerandi* – "at the Giants Causeway Sep<sup>r</sup> 1797" (Mabberley, 1985: 34).

Descriptions of *Anthyllis vulneraria*, *Calluna vulgaris*, *Erica cinerea* and *E. tetralix*, and *Parnassia palustris* also date from the late summer and autumn of 1797. Whenever he had an opportunity, but especially during the winter months when flowering plants are unavailable, Brown gathered and described cryptogams: at Whitepark Bay on 20th December 1797 he obtained several lichens.

### 1798–1799: Antrim, Belfast, (in England), Monaghan

Between 19th March and 25th May 1798, Brown's gatherings came from a variety of places, including Leslie Hill (a demesne situated a short distance to the west of Ballymoney), Ballymena, and Belfast (Mabberley, 1985: 36). He visited Mr. Craig's garden in Carrickfergus again in May. The first explicit indication of Brown's contacts with the renowned Belfast naturalist John Templeton (1766–1825) are descriptions of several exotic and native plants, including *Erica australis* and *E. tubiflora*, "*Cistus calycimus*" (Mabberley, 1985: 36) and *Carex stricta* ("cultivated in M<sup>r</sup> Templeton's Garden Orange Grove near Belfast, but found wild in the neighbourhood": see Britten, 1888), all dated May 1798. However, given the fact that Brown had met Templeton's friend Arbuckle at Donaghadee during May 1795, they may have met before this visit to Templeton's garden, which was also called Cranmore.

On 25th May Brown was at "the new barracks" in Belfast near which he gathered some *Berberis vulgaris* leaves on which he detected wheatrust, *Puccinia graminis* ("Aescidium berberidis"). *Berberis vulgaris* has not been reported from Belfast (Beesley and Wilde, 1997) nor from any other part of north-eastern Ireland

(Hackney, 1992) in recent decades, having been exterminated because it is a host of the pathogenic fungus which Brown recorded.

Brown apparently spent most of the rest of 1798 in England (Mabberley, 1985) – whether he took part in, or attended in his capacity as an army surgeon, the Battle of Ballynahinch on 12th and 13th June 1798 cannot be ascertained. Among the government forces which engaged about 5,000 troops loyal to the Society of United Irishmen, was Brown's Fifeshire Regiment of Fencibles. Brown could have left Ireland after this engagement and still reached London by 2nd July (when he collected mosses in the vicinity of Greenwich, Hampstead and Woolwich). Until mid-October 1798 he was based in London, frequently visiting gardens and nurseries: Chelsea Physic Garden, the Royal Gardens at Kew, the British Museum's somewhat decrepit garden at Montagu House, William Curtis's botanic garden at Brompton, Robert Teesdale's garden at Turnham Green, and Colvill's nursery on King's Road, Chelsea. By 1st November 1798 he was with a regimental recruiting party in Bath where, on 25th November, he called on William Sole, author of a book about mints (Mabberley, 1985: 43). The recruiting party proceeded into 1799 – in January Brown was at Edgbaston, and on 19th February he collected a moss on the ruins of Dudley Castle. Mabberley (1985) reported that Brown was in London again by 14th May. On 4th June he visited the Linnean Society.

Brown was back in Ireland in July 1799 (Mabberley, 1985: 46). When he was at Castleblaney, County Monaghan, more than a year later on 13th August 1800, Brown wrote the following in his diary (B.12, page 90) regarding Shoreweed: "Littorella lacustris in the greatest abundance on the stony margin of the lake – observd there July 1799 ....".

Nothing else is presently known about Brown's military or botanical activities during 1799. Mabberley (1985: 44) indicated that Brown went to Ballycastle and collected *Sagina maritima*. There is no reliable evidence for a return to Ballycastle because, although the specimen of *Sagina maritima* in J. E. Smith's herbarium is dated 1799, that is more likely to be the date of acquisition by Smith than the date of collection by Brown (J. Edmondson, pers. comm., 28th August 2003). Another of Brown's specimens in Smith's herbarium, labelled *Conferva phoenicea*, is also dated 1799: it was collected "from a lime-stone cave on the north coast, near the Giant's causeway, Ireland". None of the descriptions in B.93 indicates that Brown collected at Ballycastle after October 1797. His description of *Sagina maritima* (B.93, pages 793–794), which is clearly dated September 1797, reads: "Description from plants growing in bare spots by the Sea side at Bally-Castle. Where it occurs in great abundance, flowering from July till Oct<sup>r</sup> or Nov<sup>r</sup>: observd also by the water edge at Larn in Aug<sup>t</sup> 7<sup>th</sup> 97 – in this last place it grew mixd with

other herbage & the Stems were always solitary...". Perhaps Brown gave the two specimens to Smith when he visited the Linnean Society on 4th June 1799?

### 1800: Londonderry, Donegal

For 1800, Brown's extant diary (B.12) provides a very detailed account of his activities, both military and non-military, between Sunday 12th January when Brown "Slept till about 9 O'Clock. At Breakfast {between 10 & 11 O'Clock} read a few pages of Ventenat's Discours Preliminaire sur L'Etude De Botanique in his Tableau de Vegetal. ...", and Sunday 21<sup>st</sup> December when, after breakfast with Dr. Robert Scott (see Nelson, 1998), Brown " ... repacked my trunks [and] took my passage along with Kerr in the Parkgate packet saild from the Pigeon house [Dublin] at half after two PM ...".

B.93 contains description of plants collected by Brown at various localities in Ireland between 26th May and 7th November 1800 – these sometimes compliment, sometimes augment, records in his diary. For example, in June 1800 Brown was based at Dunree fort on the Inishowen Peninsula, County Donegal. According to his diary, on 3rd June he "Rose half past 6 – ... After an early breakfast {half past 8} walkd to a mountain call'd Bulben about 5 miles from the Fort, & returnd about 7 oClock. for a pretty numerous list of plants found – see my 12<sup>mo</sup> common place book ...". Unfortunately the whereabouts of this commonplace book is not known and it may not be extant, so the "pretty numerous" list is not available. However, there are 21 descriptions in B.93 based on plants from Bulben Mountain (which should not be confused with Ben Bulben in County Sligo):

- Bartramia pomiformis* (page 552)
- Bryum acutum* (page 557)
- Bryum* sp. aff. *elongatum* (page 541) ‡
- Bryum* sp. (page 544)
- Bryum zeirii* (page 550) ‡
- Byssus aurea* (page 544) ‡
- Carex rigida* (page 447) ‡
- Hypnum pulchellum* (page 549) ‡
- Hypnum* sp. (page 541)
- Hypnum undulatum* (page 542) ‡
- Jungermannia concinnata* (page 558)
- Jungermannia jubacea* (page 559)
- Jungermannia macrorhiza* (page 547) ‡
- Jungermannia radicans* (page 551) ‡
- Jungermannia* spp (pages 547, 551, 558)

*Pohlia elongata* (page 540) ‡  
*Polytrichum alpinum* (page 556)  
*Salix herbacea* (page 448) ‡  
*Saxifraga oppositifolia* (page 449) ‡  
*Splachnum* sp. (page 548)  
*Trichostomum fasciculare* (page 552).

In his diary entries for 4th and 5th June Brown noted that he had written descriptions of some of the Bulben plants; those which can be matched clearly with diary entries are marked ‡ in the above list (N.B. the names in the list have not been updated). Ordered late at night to return to Londonderry the next morning, Brown had to pack all his specimens and books quickly, and he left Dunree early on 6th June. His botanical work was disrupted and there are no later entries referring unambiguously to Bulben plants.

While at Dunree, Brown discovered Irish Spurge, *Euphorbia hyberna*, growing by the "Riverside about the Mill of Dunrea abundantly in flower – May 26<sup>th</sup> – described 27<sup>th</sup> 1800" (Britten, 1888). Brown's manuscript description is in B.93 (page 436, as *Euphorbia hibernica*), along with descriptions of eight other plants which he had collected in the area, including the following:

*Carex pulicaris* – "Near Dunrea May 30<sup>th</sup> describd 31<sup>st</sup>".  
*Lysimachia nemorum* – "Near Dunrea – Describd June 2<sup>d</sup> 1800".  
*Melampyrum* "pratense ? sylvaticum ?" – "Mountainous pastures. Banks of the small River about half a mile above Dunrea Mill – May 31<sup>st</sup> 1800 Describd June 2<sup>d</sup>".  
*Sedum roseum* (as *Rhodiola rosea*) – "Cliffs near Dunrea towards Urris May 27<sup>th</sup> in flower".

A more detailed account of Brown's Irish work during 1800 will accompany the transcription of his diary. Suffice it now to note some records contained in B.93 for County Londonderry:

*Festuca altissima* (as *Poa sylvatica*) – "In a small glen by the side of the new Road between Derry bridge & Prehen. First observ'd June 22<sup>d</sup> since July 1<sup>st</sup> & 4<sup>th</sup> ... 1800". (Hackney (1992: 358) noted Templeton's report of this grass from Ness Glen, but Brown undoubtedly found it first and showed it to Templeton when they went to the glen together on 30th June 1800, as recorded in Brown's diary.)  
*Listera ovata* (as *Ophrys ovata*) – "Prehen June 22<sup>d</sup> ... 1800".  
*Platanthera bifolia* (as *Ophrys bifolia*) – "Near Prehen July 4 ... 1800".  
*Selaginella selaginoides* (as *Lycopodium selaginoides*) – "Boggy ground at the Salmon Fishery near Derry July 28<sup>th</sup> ... 1800".

### 1800: Kildare, Dublin

Brown's next base was County Kildare (see e.g. Bowering, Reilly and Whittaker, 1995). He marched from Londonderry with his regiment on 7th August 1800, reaching Leixlip on 18th August, and stopping overnight *en route* at Strabane (7th August), Omagh (8th–10th August), Augher (11th August), Monaghan (12th August), Castleblaney (13th August), Ardee (14th August), Navan (15th August) and Trim (16th–17th August). He recorded a few plants during this march, but only had the opportunity to describe *Isoetes lacustris* in B.93. The following, recorded in Brown's diary (B.12), are the records from counties Monaghan and Meath:

#### Monaghan

*Isoetes lacustris* – Lough Muckno, Castleblaney: "thrown on Shore abundantly in fruit".

*Littorella lacustris* – Lough Muckno, Castleblaney: "in the greatest abundance on the stony margin of the lake – observd there July 1799 ....".

*Molinia caerulea* (as *Melica caerulea*) – Lough Muckno, Castleblaney: "marshy ground side of the lake but not common".

*Nymphaea alba* – Lough Muckno, Castleblaney: "abundantly in the lake".

#### Meath

*Ballota nigra* – Trim: "near the former [*Verbena officinalis*]".

*Ranunculus lingua* – Ardee: "in Ditches at the end of the town".

*Verbena officinalis* – Trim: "Road side near the town ...".

Between August and December 1800, when Brown left Ireland, the counties of Kildare and Dublin were his collecting grounds. Since no Flora of Kildare has ever been published, first records are impossible to assess. County Dublin, in contrast, has a well-recorded flora, but B.93 contains only one description of a wild-collected flowering plant, *Clinopodium ascendens* (as *Melissa calamintha*). Brown collected it by the "Road side between Lucan & Chapel Izod Sep<sup>t</sup> 3<sup>rd</sup> & 5<sup>th</sup> 1800" – this is most probably the same locality (on the so-called Strawberry Beds road) where it was first observed in 1730 and where it still grows (Doogue *et al.*, 1998: 295). The other Dublin plants noted in B.93 are three exotic species of grass which came from the Dublin Society's Botanic Gardens, Glasnevin.

The latest dated description in B.93 is of "Bryum viridissimum Dicks Fasc IV ... Castle Martyn Nov<sup>r</sup> 6 describd 7<sup>th</sup>". As explained by Mabberley (1985: 58), Brown was a major and unacknowledged source of the bryophyte species described in James Dickson's *Fasciculus Plantarum Cryptogamicarum Britanniae*: four fascicles were published, the first in 1786 (see also Henrey, 1975, 2: 379). Brown

himself helped prepare fascicle IV (see Mabberley, 1985: 57), which contained the protologue of the moss *Zygodon viridissimus* (Brown's "Bryum viridissimum"), an epiphyte on *Sambucus nigra* (elder). The type specimen of this species was collected by Brown at Castle Martyn, Kilcullen (Dickson, 1801). Brown noted this moss in his diary on several occasions. On 4th October 1800, in the afternoon after the 4.0 p.m. parade, he "Went to Castle Martyn Bryum viridissimum Dicks: Fasc IV on trees abundantly but only one tuft with fructification & that imperfect – it is the same species sent by M<sup>r</sup> Templeton N<sup>o</sup> 3". He looked again the next day: "Bryum viridissimum abundantly but hardly any with fructification ...". Later that day he "reexamin'd Bryum viridissimum & added to my former description". Persistence was eventually rewarded:

Nov<sup>r</sup> 6<sup>th</sup> – gatherd several specimens of Bryum viridissimum Dicks. Fasc IV in the Orchard of Castle Martyn with deoperculated capsules The mouth is considerably contracted the rims thickened & in all the specimens examind nakd & at the same time regular & even. hence I am inclind to refer it to Gymnostomum ... .

The contemporary references to Fascicle IV of Dickson's work in Brown's diary – they are not later annotations – indicate that Brown was already engaged in writing the description of the moss for publication in that work.

### BROWN'S MANUSCRIPT NAMES IN B.93

B.93 contains manuscript descriptions of at least 23 plants which Brown considered at the time were new, unnamed species, and to which he applied names of his own. He signalled these by appending "N.", "Nost." or "Nostrum" (our). The plants he provided with manuscript names were the following (the list is provided for its historical importance, and it is not the intention of the present author to publish these names in contravention of the *International Code of Botanical Nomenclature*).

*Aesidium epilobiae* Nost (page 284): "in dorso foliorum *Epilobiae roseae* in Horto D. [William] Curtis".

*Bryum falcatum* [Nost.] (pages 604–605: [Corrigenda] ad descriptionem page 525): "Hab<sup>t</sup> in terra nuda atra turfoso in summis Montibus Benteskerny, & Malghyrdy ...".

*Bryum velutinum* Nostrum (page 525): [corrigenda only, the main description is not in B.93].

*Byssus bicolor* Nos<sup>t</sup>: ... affinis *Byssospongioso* Nos<sup>t</sup> (page 596): " Hab<sup>t</sup> in spelaea ad littus prope Ballantoy comitatus Antrim Nov<sup>r</sup> 1797 ...".

*Cerastium quadrifidum* Nos<sup>t</sup> (pages 459–460): "Walls about Derry common June 29<sup>th</sup> – 1800 –".

- Conferva flexuosa* *Ulva capillaris* Nos<sup>t</sup> (page 274): "Locus Carrickfergus May 1798".
- Conferva innata* Nos<sup>t</sup> (pages 274–275): "see my dried plants left at Belfast".
- Epilobium laevigatum* Nos<sup>t</sup> *Epilobium alpestre* Schmidt Bohem: (pages 824–825): "plants cultivated in Mr Curtis Garden from roots sent by M<sup>r</sup> G Don who found it on Ben-Lawers about the same time with myself {1793}".
- Fucus tomentosus* ? *F. algonoides* Nos<sup>t</sup> (pages 576–577): "in a small pool left by the recess of the tide among the limestones shelves near Bally Castle Sep<sup>r</sup> 24<sup>th</sup> 1797".
- Lichen incandrilis* N [Nos<sup>t</sup>] (page 581): "on a wall along with *Endocarpon* of Hedwig near Ballantoy Dec<sup>r</sup> 1 1797".
- Lichen niveus* Nos<sup>t</sup> *L. varianus* A Davis. (page 585).
- Lichen pulchellus* Nos<sup>t</sup> (page 585): "On Limestone rocks in White Park bay Dec<sup>r</sup> 1797 RB nova certe species".
- Lichen pulverulentus* Nos<sup>t</sup> (page 324v): "on stones near Ballantoy by the road side Sep<sup>r</sup> 28<sup>th</sup> & Oct<sup>r</sup> 1<sup>st</sup> 1797".
- Lichen zonalis* ~~*bimorphus*~~ Nos<sup>t</sup> (page 582): "on walls near Ballantoy Dec<sup>r</sup> 1<sup>st</sup> 97".
- Sagina maritima* Nos<sup>t</sup> (pages 793 – 794, 480): "plants growing in bare spots by the Sea side at Bally-Castle. Where it occurs in great abundance, flowering from July till Oct<sup>r</sup> or Nov<sup>r</sup>: observd also by the water edge at Larn in Aug<sup>t</sup> 7<sup>th</sup> 97 – in this last place it grew mixd with other herbage & the Stems were always solitary – – Sep<sup>r</sup> 1797 ..."; "Shore below Prehen Aug<sup>t</sup> 5 describd 6<sup>th</sup> 1800".
- Scirpus littoreus* Nos<sup>t</sup> (page 823): "plants gatherd in green spots occasionally under water at full tide on the Ballantoy shore. It was in seed Sep<sup>r</sup> 21<sup>st</sup> 1797".
- Sertularia arcuata* Nos<sup>t</sup> (page 590): "Specimen [?] in Littore prope Ballantoy Januario menso 1798 lectum".
- Sertularia castanea* Nos<sup>t</sup> (pages 588–589): "priori affinis & cum eo lecta [... in Littore prope Ballantoy ejectis Januar: 1798]".
- Spongia trapeziformis* Nos<sup>t</sup> (page 595): "On the stem *Fucus digitalis* at Ballantoy salt works January 26<sup>th</sup> 1798".
- Trichia ilicis* Nos<sup>t</sup> an *T. globulifera* With? (page 564).
- Trichostomum curtum* Nos<sup>t</sup> addenda ... April 1800 (page 555): "on a stone near the mill about a mile & half from Derry on the Road to Sharon June 19<sup>th</sup> describd 20 [1800]".
- Ulva fasciculata* Nostra a *U. fasciculata* Walker D[?]<sup>sa</sup> sed affinis (page 572): "Sep<sup>r</sup> 1797 Bally Castle ... examinem revoluta July 1798 Londini".
- Ulva simplicissima* Nostra *U. fistulosa* Huds ? (page 573).

Of the names noted, one, *Sagina maritima*, was subsequently published but not with Brown's name appended as the authority. In 1810, George Don named and described the species in *Herbarium Britannicum* fascicle VII employing the same binomial that Brown had used (Britten, 1888; Mabberley, 1985). Whether Brown's description was used by Don remains to be investigated.

## Discussion

While many of Robert Brown's extant manuscripts are notoriously difficult to decipher, many of the pages (perhaps the majority) comprising B.93 are clearly and neatly written in ink and can be read with ease. The more daunting aspect of B.93 is its size and chaotic composition. Further detailed research will be required to disentangle the central section of the volume. The indexes (Nelson, 2003a and 2003b) appended to this paper provide access to plant names and localities, and should allow a more comprehensive assessment of Brown's work on the floras of his native Scotland and, especially, of Ireland. His work in Ireland is still largely unaccounted for in published histories of Irish botany (but see Nelson 1987, 1992, 1994, 1995).

Britten (1888) claimed that the two folio volumes which he purchased and which later became B.93 contained descriptions of 406 plants. A plausible explanation is that he took the number of the last species entry (CLXX) in 'fascicle' C (as defined earlier), and the number (237) of the last entry in 'fascicle' F and added them together. However,  $170 + 237 = 407$ , not 406. It is possible to suggest an explanation for this discrepancy. If the final leaf of the volume containing, and ending with, 'fascicle' C was loose or misplaced, he would have read CLXIX as the number of the final description, and  $169 + 237$  does make 406. This suggests that the second folio volume ended with F. It is possible that later, during binding or restoration work on B.93, the loose leaf with CLXX was restored to its proper place. Even so, it is hard to explain why Britten did not realise that the manuscript volumes which he had rescued contained many more than 406 species descriptions.

There is nothing within B.93 which post-dates 7th November 1800 (a description of *Bryum viridissimum*, pages 532–533), no evidence that Brown annotated the descriptions after 1800, and no evidence that he brought these papers with him on HMS *Investigator*. It is likely that he left these notes in safe-keeping, perhaps with his herbarium specimens. After he returned home in October 1805 he may never have consulted them.

One possible account of the history of the manuscripts in B.93 between December 1800 and October 1805 is this. As soon as Brown received Sir Joseph Banks' letter "offering to recommend me to the situation of naturalist in an expedition fitting out for [*sic*] explore the unknown parts of New Holland", he wasted no time – his diary entries suggest he could not get to London quickly enough. On 18th December 1800 "Packd up my cloaths books &c &c sold every thing Regimental that I could dispose of" and next day left Kilcullen for Dublin. Brown spent 20th December in Dublin seeing his friend, Professor Robert Scott,

and also Dr. Whitley Stokes. On 21st December he breakfasted with Scott and before heading for the packet for England "repacked my trunks", apparently at Scott's house. It is known that Brown left with Scott his violin, a microscope and some books (perhaps including his manuscript note-books) which were packed into a box (Nelson, 1998). Brown was not in any hurry to retrieve these items after his return from New Holland in October 1805, and did not apparently even contact Scott. Scott wrote to Dawson Turner and James Sowerby early in 1806, asking if they had seen Brown since his return. To Turner, Scott commented: "It appears to me a little extraordinary that I have not heard from him, considering the intimacy between us previous to his voyage ..." (see Nelson, 1998: 123). Scott died in September 1808, and during the following spring his widow wrote to Turner noting that "Mr Browne's [*sic*] books and some other articles belonging to him I wish him to have, a microscope and a violin. The books have been packed up in a box by his own direction more than eight years. I am sure they are perfectly safe as they have been constantly in a dry room ..." (original ms in Dawson Turner correspondence, Trinity College, Cambridge). Brown visited Dublin, *en route* to Edinburgh, in July 1810 and presumably met Mrs Scott (Mabberley (1985: 175) stated Brown "saw Scott") and retrieved the box of books.

Irrespective of these matters, B.93 represents a remarkable collection of Robert Brown's botanical observations for the period before he embarked on HMS *Investigator*. He was a university student aged 19 when he composed the earliest of the descriptions contained in B.13 and B.93. These are often very detailed, extending to 50 lines or more and covering more than a single page, and sometimes (for example, *Alyssum halimifolium*, B.93 pages 3–4) including information about germinating seeds and seedlings. More remarkable, perhaps, is the fact that without exception the botanical details are in competent botanical Latin, recorded in a set pattern beginning with the calyx and the corolla and concluding with the source (usually, in B.93, in English) – "Description from plants cultivated in the Edin' Botanic Garden December 1793", for example. These descriptions are indeed "models of botanical meticulousness" (Mabberley, 1985: 28). Did Brown learn his methods and botanical Latin at the University of Edinburgh, or was he self-taught?

Brown's botanical interests were catholic. His inquisitiveness led him to study not only native British and Irish plants but also exotics growing in garden glasshouses, and marine algae, lichens, fungi, mosses and liverworts were just as eagerly investigated as ferns and flowering plants – all these are represented in B.93. As we know, Brown became a superb microscopist – he had at least two microscopes, including (as mentioned earlier; Figure 2) Cuff's Compound Microscope, when he was in Ireland (Mabberley, 1985: 32, 34, 54–55) – and B.93 includes descriptions of microscopic organisms, such as hydrozoans and sponges, which are now placed in the Animal Kingdom.

It is worth commenting that while Brown most probably did not bring the manuscripts which form B.93 with him on the *Investigator* voyage, the descriptions indicate that he was not entirely unprepared for the extraordinary floras which he was to encounter in the southern hemisphere. He had examined at least a dozen different Cape heaths in the 1790s, and among the Australian species which are described in B.93 was *Leptospermum scoparium* (pages 406, 627) which Brown saw in January 1797 "in Mr Dickson's Nursery {Stove} Lieth Walk. Under the name of *Philadelphus floribundus*, from New Holland".

B.93 demonstrates Robert Brown's exceptional competence as a taxonomic botanist, capable from his student days of writing meticulous descriptions of the plants which he observed. The folios bound into this volume may not all be neatly inscribed, and when the handwriting is close to a scrawl we may be sure that Brown was writing as he observed a flower with his eyes, or a moss with a hand lens, or a lichen under a microscope. He was capable, when he had the time to spare, of transforming those hasty, rough notes into carefully polished descriptions. When he was a student and later an "industrious, single-minded" regimental surgeon, he had such leisure, but when working on board HMS *Investigator* in a "cramped and hot" cabin, suddenly confronted by countless new species of almost bewildering variety, Brown's meticulousness evaporated and his notes were then "carelessly written" (Mabberley, 1985: 87; Vallance, Moore and Groves, 2001: 10–11).

In conclusion, this gathering of manuscripts exemplifies the broadly based, early botanical interests, and demonstrates the already remarkably accomplished skills, of a young Scot who would eventually be lauded as "our *Jupiter Botanicus*" by Karl von Martius and, by Alexander von Humboldt, as "*Facile Botanicorum Princeps*" (Mabberley, 1985: 279, 378, 398).

### Acknowledgements

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 [There is an error (repeated by Mabberley, 1985: 60 (note 23), 418) in the heading of the first part of this paper (Vol. 1: 403; November 1828), where it was wrongly attributed to J.L. Drummond. Unfortunately, although this error was corrected by Dr. Drummond in the very next part of the journal (Vol. 1: 496; January 1829), neither this correction, nor the Revd. T.D. Hincks' name, appears anywhere in the Contents or Index to either volume one or volume two of the journal, although Hincks' name was correctly given in the heading of the second part of the paper (Vol. 2: 305; July 1829)].
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# ROBERT BROWN'S MANUSCRIPT DESCRIPTIONS OF BRITISH AND IRISH PLANTS (B.93) (1792–1800), WITH INDEXES TO BOTANICAL NAMES AND PLACES

## 2. INDEX TO PLANT NAMES IN B.93

By E. CHARLES NELSON  
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Robert Brown's manuscript B.93 (Moore and Beasley, 1997) contains descriptions, ranging from brief notes to extensive botanical descriptions, of about 1,000 plants (see Nelson, 2003a for full details of the manuscript). B.93 also contains the undernoted miscellaneous items:

Robert Brown's own indexes	68, 161, 596
Robert Brown's draft letters	419, 505-507, 519-521
Excerpta ab Observationibus mycologicis D Persoon	320

This index to the names of the plants described in B.93 includes only the principal names; names of species mentioned within the descriptions, for example for purpose of comparison, have not been included. The names have not been edited except for consistency (for example, the initial letter of the specific epithet is always rendered in lower case), nor updated. The names in **bold** are names which Brown himself signalled as his own names (see Nelson, 2003a, pages 135-136, for further details of these names).

Achania malvaviscus	769
Achillea alpina	23–236
Achillea macrophylla	235
Adonis vernalis	193–194
Adoxa moschatellina	194
Aegilops ovata	321–322
Aescidium berberidis	567
<b>Aescidium epilobiae</b>	284
Agapanthus umbellatus	227–228
Ageratum conyzoides	680–681
Agrostis sp.	419
Agrostis verticillatus	13
Aira caerulea	245–246
Aira canescens	732
Alisma damasonium	420, 835–836
Alisma ranunculoides	786–787

<i>Allium ursinum</i>	52
<i>Alopecurus arvensis</i>	816
<i>Alyssum halimifolium</i>	3-4
<i>Alyssum incanum</i>	175-176
<i>Alyssum saxatile</i>	57 & 59, 193
<i>Amaranthus</i> sp.	234
<i>Amaranthus bicolor</i>	246-247
<i>Amethystea caerulea</i>	390-391
<i>Amygdalus communis</i>	25-26
<i>Amygdalus nana</i>	47-48
<i>Anagallis arvensis</i>	10-11, 795
<i>Anagallis arvensis carnea</i>	827-828
<i>Anagallis arvensis phoenicea</i>	827-828
<i>Anagallis monelli</i>	687-688
<i>Anchusa angustifolia</i>	106-107
<i>Ancistrum lucidum</i>	295-296, 413-414
<i>Andromeda calyculata</i>	9
<i>Andromeda polifolia</i> var. <i>angustifolia</i>	48-49
<i>Androsace septentrionalis</i>	150, 205
<i>Anemone appenina</i> [ <i>sic</i> ]	22
<i>Anemone hepatica</i>	34
<i>Anemone hortensis</i>	20-21
<i>Anemone nemorosa</i>	66
<i>Anthericum calyculatum</i>	125, 248-249
<i>Anthericum liliastrum</i>	213-214
<i>Anthospermum aethiopicum</i>	629
<i>Anthyllis vulneraria</i>	809
<i>Aphanes arvensis</i>	30
<i>Apium graveolens</i>	810
<i>Aquilegia canadensis</i>	69-70
<i>Arabis alpina</i>	16-17
<i>Arabis alpina</i> varietas	22
<i>Arabis hispida</i>	40-41, 99
<i>Arabis thaliana</i>	53-54, 207
<i>Aralia racemosa</i>	163
<i>Arbutus unedo</i>	750-751
<i>Arenaria "grandiflora"</i>	306-307
<i>Arenaria marina</i>	297-298
<i>Arenaria media</i>	299, 820-821
<i>Arenaria minor</i>	298-299
<i>Arenaria peploides</i>	247
<i>Arenaria rubra</i>	300
<i>Arenaria serpyllifolia</i>	246
<i>Arenaria verna</i>	218
<i>Arundo phragmites</i>	485-486
<i>Asarum europaeum</i>	80-81
<i>Asparagus officinalis</i>	8
<i>Asperula laurina</i>	723-724

Asphodelus fistulosus	761–762
Asplenium ceterach	397
Aster sp.	242
Aster miser ?	234
Aster novae-angliae	780–781
Aster tripolium	10
Astragalus cicer	785–786
Astragalus uralensis	695–697
Athanasia dentata	381, 837
Avena elatior	481–482
Bartramia pomiformis	552
Basella rubra	5–6
Begonia nitida	216–217
Bellis ? sp.	380
Bellis annua	301–302
Bellium ? sp.	380
Berberis vulgaris	567
Blaeria ericoides	413
Blechnum sp.	228
Blechnum spicant	267–268
Brassica monensis	643–645
Bromus ciliatus	332
Bromus giganteus	479–480
Bromus inermis	333, 501–502
Bromus pinnatus	504
Bromus purgans	386
Bromus stipodes	331
Bryum spp.	411, 438, 523–524, 528, 529 532, 536, 537, 544–545, 580, 601–602
Bryum [letter on]	519–521
Bryum aciculare	582
Bryum aciculare $\alpha$	606–607
Bryum acutum	557
Bryum atro-virens	611–612
Bryum bipartitum	619
Bryum calcareum	538
Bryum celsii	619
Bryum cerviculatum	553–554, 560, 562
Bryum crispatum	560
Bryum crispum ?	564
Bryum dealbatum	546–547
Bryum elongatum	540
Bryum aff. elongatum	541
[Bryum] exaltatum	671a
Bryum extintorium $\alpha$	610–611
<b>Bryum falcatum</b>	525, 604–605
Bryum flexuosum	620

<i>Bryum heimii</i>	561
<i>Bryum heteromallum</i>	613–614
<i>Bryum hypnoides</i> var. <i>surculo-erectiusculo</i>	597
<i>Bryum laetum</i>	522
<i>Bryum lineare</i>	620
<i>Bryum ovatum</i>	599
<i>Bryum patens</i>	608
<i>Bryum pellucidum</i>	554, 600–601, 603–604
<i>Bryum polyphyllum</i>	583
<i>Bryum pomiforme</i>	552
<i>Bryum pomiforme</i> var. $\beta$ <i>weberi</i>	620–621
<i>Bryum sericeum</i>	605–606
<i>Bryum simplex</i>	615–616
<i>Bryum striatum</i>	564 <i>crispum?</i>
<i>Bryum tetragonum</i>	609–610
<i>Bryum tortuosum</i>	583, 602–603
<i>Bryum turbinatum</i> ?	559
<i>Bryum undulatum</i>	614–615
<i>Bryum vaginale</i>	561
<b><i>Bryum velutinum</i></b>	525
<i>Bryum virens</i>	598
<i>Bryum viridissimum</i>	532–533, 537
<i>Bryum viridulum</i>	598
<i>Bryum zeirii</i>	550
<i>Bubon gummiferum</i>	726–727
<i>Buchnera</i> sp. ?	430, 828–829
<i>Buchnera capensis</i>	829–830
<i>Buddleia globosa</i>	729–730
<i>Bunias cakile</i>	802–803
<i>Buphthalmum grandiflorum</i>	697
<i>Butomus umbellatus</i>	838
<i>Buxus sempervirens</i>	717–718
<i>Byssus aurea</i>	544
<b><i>Byssus bicolor</i></b>	596
<i>Byssus coriacea</i>	596
<b><i>Byssus spongiosa</i></b>	596
<i>Cactus pendula</i>	38, 227
<i>Calceolaria pinnata</i>	701–702
<i>Calendula</i> sp.	372
<i>Calycanthus floridus</i>	158–159
<i>Campanula pulla</i>	302–303
<i>Campanula pumila</i>	302–303
<i>Campanula speculum</i>	250
<i>Canella alba</i>	231–232
<i>Cannarina</i> [ <i>sic</i> ] <i>campanula</i>	136
<i>Cardamine hirsuta</i>	54–55, 160
<i>Cardamine trifolia</i>	22–23

Cardiospermum halicacabum	130–131
Carex spp.	210–211, 443
Carex capillaris	205
Carex dioica	208
Carex distans	245
Carex divulsa	330, 843
Carex flava	208–209
Carex globularis	1
Carex pendula	103–104
Carex pilulifera	509
Carex pulicaris	444
Carex remota	817
Carex rigida	447
Carex rostrata	217
Carex stricta	251
Carex sylvatica	817
Carex vulpina	209–210
Caucalis anthriscus	797–798
Ceanothus americanus	734
Celastrus buxifolius	223
Cellularia plumosa	594
Celsia arcturus	39, 768–769
Celsia linearis	832–833
Celsia occidentalis	39
Centaurea isnardi	327, 841–842
Centaurea jacea	277
Centaurea scabiosa	218
Cerastium alpinum	81–82
Cerastium aquaticum	237, 418, 836–837
Cerastium arvense	206
Cerastium latifolium	81–82
<b>Cerastium quadrifidum</b>	459–460
Cerastium tomentosum	112–113
Cerastium viscosum	169–170
Cerithe major	7
Cestrum diurnum	135
Cheiranthus erysimoides	115–116
Cheiranthus tricuspis	155
Chelidonium hybridum	742–743
Chelone formosa	409–410
Chelone glabra	752–753
Chironia centaureum	811
Chironia linoides	223
Chloranthus inconspicuus	379
Chrysosplenium alternifolium	61–62
Chrysosplenium oppositifolium	31–32
Cineraria lanata	228
Cineraria maritima	725–726

<i>Cinna arundinacea</i>	335–336
<i>Circaea alpina</i>	662
<i>Cistus appeninus</i>	226–227
<i>Cistus calycinus</i>	281
<i>Cistus salicifolius</i>	242
<i>Clethra alnifolia</i>	749
<i>Clinopodium vulgare</i>	773
<i>Clutia alaternoides foemina</i>	47
<i>Clutia pulchella</i>	707–708
<i>Cneorum tricoccum</i>	684
<i>Cochlearia anglica</i>	473
<i>Cochlearia officinalis</i>	40
<i>Coffea arabica</i>	224
<i>Colutea cruenta</i>	178–179
<i>Colutea frutescens flore rubicundo</i>	286–287
<i>Comptonia asplenifolia</i>	89–91
<i>Conferva</i> spp.	265, 539, 577, 616, 616
<i>Conferva flexuosa</i>	274
<b><i>Conferva innata</i></b>	274–275
<i>Convallaria japonica</i>	231
<i>Convallaria majalis</i>	77
<i>Cornucopiae cucullatum</i>	476
<i>Cornus sanguinea</i>	191
<i>Coronilla cretica</i>	326
<i>Coronilla glauca</i>	768
<i>Coronilla valentina</i>	767–768
<i>Corrigiola littoralis</i>	312
<i>Corypha umbraculifera</i>	693
<i>Cotyledon umbilicus</i>	795–796
<i>Crataegus oxycantha</i>	250
<i>Crataegus oxycantha</i> var.	325
<i>Crocus sativus</i>	21–22
<i>Crotollaria [sic] retusa</i>	762–763
<i>Cunilla [sic] thymoides</i>	252
<i>Cynoglossum omphalodes</i>	26
<i>Cynosurus aegyptiacus</i>	376–377
<i>Cynosurus aureus</i>	374 & 377
<i>Cynosurus echinatus</i>	337–338, 787–788
<i>Cynosurus erucaeformis</i>	478
<i>Cynosurus indicus</i>	375–376
<i>Cynosurus</i> sp.	337–338
<i>Cyrilla pulchella</i>	656–657
<i>Cytisus capitatus</i>	700–70 ????
<i>Cytisus foliolosus</i>	728–729
<i>Cytisus sessilifolius</i>	118–119
<i>Dactylis cynosuroides</i>	343–344
<i>Dactylis glomerata</i>	469

Dactylis patens	475
Daphne laureola	33
Daphne mezereum	32–33
"Datisca cannabina"	775
Dicranum sp.	554
Dicranum cerviculatum	553–554, 560
Dicranum virens	522
Dictamnus albus	435–436
Diosma capitatum	71
Diosma ericoides	231, 730
Diosma oppositifolia	256
Dirca palustris	17–18
Draba aizoides	307
Draba incana	10, 202
Draba stellata	290–291
Draba verna	197
Dracaena ensifolia	692–693
Dracocephalum ruchiana	123–124
Dracocephalum sibericum	645–646
Echium sp.	783
Eclipta sp.	779
Ehrrharta [ <i>sic</i> ] sp.	416
Elymus canadensis	352
Elymus giganteus	425
Elymus tener?	387
Elymus virginicus	351v
Epilobium alpestre	824–825
Epilobium angustissimum	359–360
Epilobium hirsutum	784
<b>Epilobium laevigatum</b>	824–825
Epilobium roseum	825
Epilobium villosum	784–785
Epimedium alpinum	146–147
Erica spp.	72, 244–245, 624–625, 625, 625
Erica australis	221, 497
Erica capitata	221
Erica cinerea	800
Erica curviflora	623
Erica daboeci	670–671
Erica hispidula	384
Erica margaritacea	385
Erica mediterranea	44
Erica parviflora	626
Erica persoluta	499
Erica pubescens	622
Erica ramentacea	624
Erica tetralix	582, 801

<i>Erica tubiflora</i>	280
<i>Erica versicolor</i>	396, 840
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<i>Scoparia dulcis</i>	2
<i>Scorzonera picroides</i>	239
<i>Scrophularia peregrina</i>	94–96, 240
<i>Scrophularia scorodonia</i>	184–186
<i>Scrophularia verna</i>	50–51
<i>Scutellaria alpina</i>	392
<i>Sedum anglicum</i>	181, 246
<i>Sedum dasyphyllum</i>	655–656
<i>Selago</i> sp.	257
<i>Serapias palustris</i>	328–329
<i>Serratula alpina</i>	230
<b><i>Sertularia arcuata</i></b>	590
<b><i>Sertularia castanea</i></b>	588–589
<i>Sertularia</i> aff. <i>kalecina</i>	592
<i>Sertularia myriophyllum</i>	288
<i>Sertularia pinaster</i> ?	588
<i>Sertularia polyzonias</i>	593
<i>Sertularia repens</i>	593
<i>Sertularia rosacea</i>	589–590
<i>Sertularia tamarisca</i>	592
<i>Sertularia uva</i> ?	591, 593
<i>Sertularia verticillata</i>	592
<i>Sesleria caerulea</i>	100–101
<i>Sibbaldia procumbens</i>	82
<i>Sibthorpia europaea</i>	703–704
<i>Sida</i> spp.	776, 777, 778
<i>Sida asiatica</i>	776
<i>Sideritis candicans</i>	681–682
<i>Sideritis hirsuta</i> ?	187–188
<i>Sideritis montana</i>	325–326
<i>Sigesbeckia oviculatis</i>	362

<i>Silene behen</i>	735–736
<i>Silene conica</i>	647–648
<i>Silene geniculata</i>	498
<i>Silene maritima</i>	803–805
<i>Silene nutans</i>	98–99, 207–208, 498
<i>Silene orchidea</i>	669–670
<i>Silene portensis</i>	168–169, 220
<i>Sinapis laevigata</i> ?	96–97
<i>Sisymbrium nasturtium</i>	180
<i>Sisymbrium terrestre</i>	668–669
<i>Smyrnum perfoliatum</i>	73–74
<i>Solanum</i> spp.	38–39, 151, 709–710, 786
<i>Solanum nigrum</i> var. <i>indicum</i> ?	237
<i>Sonchus floridanus</i>	781–782
<i>Spartium decumbens</i>	140–141
<i>Spartium multiflora</i>	225–226
<i>Spartium radiatum</i>	142, 207
<i>Speillmania [sic] africana</i>	683–684
<i>Spergula</i> sp.	796–797
<i>Spergula arvensis</i>	247
<i>Sphaeria ilicis</i>	565
<i>Sphagnum arboreum</i>	533–534
<i>Spiraea hypericifolia</i>	101–102
<i>Spiraea</i> sp.	121–122
<i>Splachnum</i>	548–549
<i>Splachnum sagittifolium</i>	518
<i>Splachnum vasculosum</i>	548–549
<b><i>Spongia trapeziformis</i></b>	595
<i>Stachys arvensis</i>	9
<i>Staphylea pinnata</i>	191–192
<i>Statice armeria</i>	801–802
<i>Stellaria glauca</i>	674–675
<i>Stellaria graminea</i> var. $\beta$	674–675
<i>Stellaria nemorum</i>	167–168
<i>Stellaria scapigera</i>	289–290
<i>Stellaria uliginosa</i>	713–714
<i>Stipa juncea</i>	788–789
<i>Struthiola virgata</i>	427
<i>Symphytum tuberosum</i>	102–103
<i>Syringa vulgaris</i>	163
<i>Tamarix germanica</i>	188
<i>Tanacetum flabelliforme</i>	388
<i>Taxus baccata</i>	269, 364–365
<i>Telephium imperati</i>	385, 737–738r
<i>Teucrium botrys</i> ?	422
<i>Teucrium fruticans</i>	665–666
<i>Teucrium pyrenaicum</i>	304–305

<i>Thlaspi arvense</i>	179
<i>Tofieldia palustris</i>	266
<i>Tradescantia discolor</i>	688–689
<i>Tradescantia virginica</i>	642–643
<i>Trichia globulifera</i> ?	564
<b><i>Trichia ilicis</i></b>	564
<b><i>Trichostomum curtum</i></b>	555
<i>Trichostomum fasciculare</i>	552–553
<i>Trichostomum fontinaloides</i>	524
<i>Tridentaria europaea</i>	220
<i>Trifolium fragiferum</i>	494
<i>Trifolium glomeratum</i> ?	318
<i>Trifolium incarnatum</i> ?	318–319
<i>Trifolium spumosum</i>	317–318
<i>Trifolium stellatum</i>	319
<i>Tripsacum dactylon</i>	352–353
<i>Tripsacum hermaphroditum</i>	705–706
<i>Triticum loliaceum</i>	248
<i>Triumfetta triloba</i>	760
<i>Tropaeolum majus</i>	392–393
<i>Tropaeolum minor</i>	393
<i>Turritis hirsuta</i>	638–639
<i>Tussilago alpina</i>	36–37
<i>Tussilago farfara</i>	269–270
<i>Ulva</i> sp.	568
<i>Ulva</i> ? spp.	394, 571
<b><i>Ulva capillaris</i></b>	274
<b><i>Ulva fasciculata</i></b>	572
<i>Ulva fistulosa</i>	573
<i>Ulva pavonia</i>	569–570
<b><i>Ulva simplicissima</i></b>	573
<i>Uniola</i> sp.	351r
<i>Urtica dodartii</i>	228
<i>Urtica gracilis</i>	679–680
<i>Utricularia minor</i>	266
<i>Uvularia amplexicaulis</i>	201
<i>Vaccinium myrtillus</i>	59
<i>Vaccinium uliginosum</i>	64–65
<i>Vaccinium virgatum</i>	373
<i>Vaccinium vitis-idaea</i>	77–78
<i>Valeriana locusta</i>	194
<i>Verbena aubletia</i>	132
<i>Verbena supina</i>	253
<i>Verbena urticaefolia</i>	253
<i>Veronica agrestis</i>	28–29
<i>Veronica alpina</i>	230–231

<i>Veronica anagallis</i>	667–668
<i>Veronica aphylla</i>	282–283
<i>Veronica arvensis</i>	31
<i>Veronica decussata</i>	649–650
<i>Veronica fruticulosa</i>	641–642
<i>Veronica saxatilis</i>	278–279
<i>Viburnum lantana</i>	76
<i>Viburnum tinus</i>	17
<i>Vicia benghalensis</i>	324r
<i>Vicia bithynica</i>	780
<i>Vicia cracca</i>	462
<i>Vicia hybrida</i>	8, 743–744
<i>Vicia laevigata</i>	826–827
<i>Vicia lathyroides</i>	9, 157–158
<i>Vicia lutea</i>	744, 825–826
<i>Vicia narbonensis</i>	771–772
<i>Vicia sativa</i>	9
<i>Vinca major</i>	44–45
<i>Viola amoena</i>	283
<i>Viola blanda</i>	284
<i>Viola canina</i>	55–57
<i>Viola cornuta</i>	284
<i>Viola cucullata</i>	720–721
<i>Viola grandiflora</i>	182–183
<i>Viola grandiflora</i> ?	307
<i>Viola montana</i>	253
<i>Viola</i> “ <i>montana</i> ”	229
<i>Viola pilosa</i>	283–284
<i>Viola striata</i>	722
<i>Weisia heteromalla</i>	586
<i>Weisia recurvirostra</i>	532
<i>Westringia rosmarinifolia</i>	366–367
<i>Xeranthemum annuum</i>	171–172
<i>Xylophylla falcata</i>	654–655
<i>Zanthoxylon clava-herculis</i>	186–187
<i>Zinnia pauciflora</i>	782–783
<i>Zizania palustris</i>	415
<i>Zostera marina</i>	815

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**ROBERT BROWN'S MANUSCRIPT DESCRIPTIONS OF  
BRITISH AND IRISH PLANTS (B.93) (1792–1800), WITH  
INDEXES TO BOTANICAL NAMES AND PLACES**

**3. INDEX TO LOCALITIES OF COLLECTION, WITH PLANT NAMES**

By E. CHARLES NELSON  
*Wisbech, Cambridgeshire*

Robert Brown's manuscript B.93 (Moore and Beasley, 1997) contains descriptions of about 1,000 plants collected at various localities in Scotland, Ireland and England, as well as from gardens (see Nelson, 2003a for full details of the manuscript). This index is divided into six sections:

English plants: native	pages 165-166
English plants: cultivated	pages 166-168
Irish plants: native	pages 168-171
Irish plants: cultivated	pages 171-172
Scottish plants: native	pages 172-175
Scottish plants: cultivated	pages 175-179

The plant names are arranged under each locality chronologically and then alphabetically.

The annotation "**JB**" provides a cross-reference to the page number in *Jupiter Botanicus* (Mabberley, 1985) where this plant or locality is mentioned.

**ENGLISH PLANTS: NATIVE**

**Croydon, Surrey**

No date	Bryum
1798.03	Bryum

**Dudley [JB: 43]**

1799.02.19	Bryum [JB: 43]
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**Hampstead**

1798.07.02	Dicranum cerviculatum
1798.07.09	Bryum cerviculatum

**Henlaw [? Henley]**

No date Bryum

**London: Battersea**No date Fontinalis minor; Orthotrichum nudum  
1798.08 Butomus umbellatus [*JB: 39*]**London: Battersea to Lambeth**1798.07.05 Phascum sphaerocephalon [*JB: 38*]**London: Greenwich to Woolwich**

1798.07.02 Bryum heimii

**London: Pimlico**1798.08.27 Cerastium aquaticum [*JB: 39 Myosoton aquaticum*]**Turnham Green**1798.08.25 Alisma damasonium; Limosella aquatica [*JB: 39*]**Yarmouth**No date Fucus radiatus  
1798 Fucus subfuscus**York**

No date Hypnum

**Without locality**

No date Orthotrichum diaphanum

**ENGLISH PLANTS: CULTIVATED****Bath: William Sole's garden, Trim Street [*JB: 43*]**

1798.11.25 Asplenium ceterach

**Croydon: [unnamed] garden**

No date Phascum curvisetum

**London: Brompton: William Curtis's Botanic Garden [*JB: 43*]**No date Aescidium epilobiae; Erica margaritacea; Poa decumbens; Viola  
amoena1793 Epilobium laevigatum [*JB: 27 = E. anagallidifolium*]1798.07 Cunilla thymoides; Epilobium roseum; Hypericum dubium; Lamium;  
Vicia laevigata; Vicia lutea;1798.07.12 Arenaria media; Corrigiola littoralis; Herniaria glabra; Herniaria  
hirsuta; Poa alpina; Veronica aphylla; Viola cornuta; Viola pilosa1798.07.28 Bromus ciliatus; Bromus inermis; Bromus stipodes; Cinna  
arundinacea; Cornucopiae cucullatum; Cynosurus; Cynosurus  
erucaeformis; Dactylis patens; Panicum glaucum; Poa; Poa  
amboinensis

- 1798.08 *Garidella nigellastrum*; *Verbena supina*; *Verbena urticaefolia*; *Viola montana*
- 1798.08.04 *Dactylis cynosuroides*; *Elymus canadensis*; *Elymus virginicus*; *Geranium malacoides*; *Geranium palustre*; *Geranium sibiricum*; *Oenothera hirta*; *Oenothera longiflora*; *Oenothera molissima*; *Oenothera purpurea*; *Oenothera sinuata*; *Panicum germanicum*; *Panicum hirtella*; *Uniola*
- 1798.08.13 *Amethystea caerulea*; *Bromus purgans*; *Erica hispidula*; *Panicum crus-galli*; *Panicum dactylon*; *Panicum viride*; *Polypodium dentatum*; *Polypodium ilvense*; *Oenothera grandiflora*; *Oenothera parviflora*; *Scutellaria alpina*
- 1798.09.02 *Elymus giganteus*; *Poa tenuiflora*
- 1798.09.11 *Isopyrum fumarioides*

**London: Chelsea: James Colvill's Nursery, King's Road [JB: 39]**

- 1798.09.10 *Struthiola virgata*
- 1798.09.11 *Buchnera?*; *Diosma oppositifolia*; *Erinus?*; *Gnidia?*; *Leysera gnaphalodes*; *Mahernia pinnata*; *Mahernia verticillata*; *Manulea tomentosa*; *Passerina*; *Planta Papilionacea ex Nov. Hollandia*; *Polygala oppositifolia*; *Selago*

**London: Chelsea Physic Garden [JB: 38]**

- No date *Aegilops ovata*; *Draba stellata*; *Oenothera molissima*; *Ornithopus*; *Oxalis corniculata?* [JB: 27 = *D. norvegica*]
- 1798.07 *Anagallis arvensis phoenicea & carnea*; *Buchnera capensis*; *Coronilla cretica*; *Erinus?*; *Euphorbia exigua*; *Lepidium subulatum*; *Lycium Japonicum*; *Vicia benghalensis*
- 1798.07.03 *Mocheringia muscosa*; *Stellaria scapigera*
- 1798.07.05 *Saxifraga hirculus*
- 1798.07.09 *Bellis annua*; *Campanula pulla*; *Erigeron*; *Gypsophila prostrata*; *Gypsophila saxifraga*; *Herniaria glabra?*; *Leontodon aureum*; *Lychnis alpestris*; *Polypodium regium*; *Scirpus*; *Teucrium pyrenaicum*
- 1798.07.21 *Gypsophila viscosa*; *Panicum sanguinale*; *Sideritis montana*
- 1798.07.22 *Polypodium auriculatum*; *Trifolium glomeratum?*; *Trifolium incarnatum?*; *Trifolium spumosum*; *Trifolium stellatum*
- 1798.07.30 *Celsia linearis*; *Lepidium suffruticosum*; *Psoralea pinnata*
- 1798.07.31 *Illecebrum sessile*; *Lantana africana*; *Lobelia pubescens*; *Lotus dorychnium*; *Melissa cretica*
- 1798.08. *Athanasia dentata*
- 1798.08.09 *Athanasia dentata*; *Bellis?*; *Bellium?*; *Calendula*; *Chloranthus inconspicuus*; *Cynosurus aegyptiacus*; *Cynosurus aureus*; *Cynosurus indicus*; *Galega stricta*; *Hieracium fruticosum*; *Incestrum latibrosum*; *Justicia*; *Madia mellita*; *Pectis?*; *Plectranthus*; *Sigesbeckia oviculatis*; *Westringia rosmarinifolia*
- 1798.08.18 *Elymus tener?*; *Panicum verticillatum*; *Pelargonium gibbosum*; *Schoenus compressus*; *Taxus baccata*; *Telephium imperati*; *Tropaeolum minor*; *Vaccinium virgatum*
- 1798.08.22 *Itea spinosa*; *Lysimachia ephemerum*; *Psoralea bracteata*; *Tanacetum flabelliforme*

1798.08.27	Cerastium aquaticum
1798.08.30	Gaura biennis; Panicum capillare; Teucrium botrys?
1798.09	Dictamnus albus
1798.09.11	Erinus?

**London: [unnamed] garden**

1798.08.12	Phaseolus vulgaris
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**London : Kew: Royal Gardens [JB: 39]**

1798.08.25	Agrostis?; Ancistrum lucidum; Blaeria ericoides; Chelone formosa; Ehrharta; Erica versicolor; Gnidia spp; Houstonia purpurea; Justicia spp; Zizania palustris
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**London: British Museum Garden, Montagu House [JB: 39]**

No date	Centaurea Isnardi [JB: 39 <i>C. aspera</i> ]; Geranium aconitifolium?; Hieracium virgatum; Juncus niveus
1798.07	Milium paradoxum; Phyteuma orbicularis
1798.07.26	Carex divulsa; Hieracium spicatum; Serapias palustris [JB: 39 <i>Epipactis palustris</i> ]; Lepidium graminifolium

**Turnham Green: Robert Teesdale's garden [JB: 38]**

No date	Saxifraga moschata?
1798.07.11	Viola grandiflora

**IRISH PLANTS: NATIVE****Ballintoy, Co. Antrim**

No date	Sertularia uva
1797.09	Bunias Cakile; Juncus uliginosus; Lavatera arborea; Schoenus rufus;
1797.09.21	Scirpus littoreus
1797.09.28	Lichen pulverulentus
1797.11	Byssus bicolor
1797.12.01	Lichen incandrilis; Lichen zonalis
1798.01	Sertularia arcuata; Sertularia castanea; Sertularia pinaster; Sertularia uva
1798.01.23	Sertularia tamarisca
1798.01.26	Fucus dentatum; Sertularia verticillata; Spongia trapeziformis

**Ballycastle, Co. Antrim [JB: 34, 36]**

No date	Conferva; Fucus pinnatifidus; Schoenus albus
1797	Aira caerulea; Euphorbia helioscopia; Euphrasia officinalis; Juncus bufonius; Sedum anglicum
1797.09	Anthyllis Vulneraria; Chironia centaureum; Erica cinerea; Erica tetralix; Erica vulgaris; Gentiana campestris; Jasione montana; Parnassia palustris; Silene maritima; Statice armeria; Ulva fasciculata
1797.09.21	Utricularia minor

- 1797.09.22 Conferva  
 1797.09.24 Fucus dasyphyllus; Fucus tomentosus  
 1797.10 Arenaria media; Orobanche major; Polygala vulgaris; Schoenus albus

**Ballycastle to Carrickfergus, Co. Antrim**

- 1797 Poa loliacea

**Ballymena, Co. Antrim**

- 1798.05.07 Carex pilulifera

**Ballymoney, Co. Antrim**

- 1798.04.07 Bryum striatum

**Ballymoney, Leslie Hill, Co. Antrim**

- 1799.01 Orthotrichum nudum

**Belfast, Co. Antrim [JB: 36]**

- No date Fontinalis alpina; Rubus saxatilis; Sagina apetala  
 1798.05.23 Lichen exilis, Lichen muscicola  
 1798.05.25 Aescidium berberidis; Arenaria marina; Arenaria minor; Berberis vulgaris

**Belfast to Carrickfergus, Co. Antrim**

- 1797.06 Carex remota; Carex sylvatica

**Brochy, near Ballintoy, Co. Antrim**

- 1797.09.29 Bryum; Hymenophyllum tunbridgense

**Bulben Mountain, Inishowen, Co. Donegal [JB: 55]**

- 1800.06.03 Bartramia pomiformis; Bryum spp; Bryum acutum; Bryum zeirii;  
 Byssus aurea; Carex rigida; Hypnum sp.; Hypnum pulchellum;  
 Hypnum undulatum; Jungermannia spp; Jungermannia concinnata;  
 Jungermannia jubacea; Jungermannia macrorhiza; Jungermannia radicans;  
 Pohlia elongata; Polytrichum alpinum; Salix herbacea;  
 Saxifraga oppositifolia; Splachnum sp.; Trichostomum fasciculare

**Carrickfergus, Co. Antrim [JB: 34]**

- 1797 Alopecurus arvensis  
 1797.04.06 Fucus pinnatifidus; Fucus pygmaeus  
 1797.04.13 Fontinalis alpina  
 1797.05 Fucus verticillatus; Arenaria serpyllifolia; Apium graveolens  
 1797.05.30 Parietaria officinalis  
 1797.06 Caulis Anthriscus; Crataegus oxycantha; Festuca fluitans; Fumaria capreolata; Zostera marina  
 1797.06.30 Cotyledon Umbilicus  
 1797.07 Anagallis arvensis; Arenaria peploides; Erodium moschatum  
 1798.05 Conferva flexuosa

**Castleblaney, Co. Monaghan [JB: 47]**

1800.08.13 Isoetes lacustris

**Chapelizod to Lucan, Co. Dublin**

1800.09.03 Melissa calamintha

**Donaghadee, Co. Down**

No date Conferva

**Dunree, Inishowen, Co. Donegal [JB: 46]**

1800 Bryum dealbatum  
 1800.05.26 Euphorbia hibernica [JB: 55]  
 1800.05.27 Rhodiola rosea  
 1800.05.30 Carex; Carex pulicaris  
 1800.05.31 Melampyrum pratense  
 1800.06.02 Lysimachia nemorum  
 1800.06.03 Bryum turbinatum  
 1800.06.12 Polypodium cristatum

**Fair Head, Co. Antrim**

1797 Carex distans; Juncus campestris var. montanus  
 1797.08 Schoenus nigricans  
 1797.08.30 Spargula  
 1797.09 Spargula

**Giant's Causeway, Co. Antrim**

1797.09 Samolus valerandi [JB: 34]

**Kilcock, Co. Kildare [JB: 47]**

1800.08.30 Festuca pratensis; Galeopsis ladanum; Geranium pyrenaicum  
 1800.09.01 Phascum patens; Trifolium fragiferum  
 1800.09.07 Potamogeton pusillum  
 1800.09.10 Neckera heteromalla  
 1800.09.14 Dactylis glomerata  
 1800.09.15 Avena elatior; Phleum pratense  
 1800.10.05 Arundo phragmites

**Kilcock to Maynooth, Co. Kildare**

1800.09.16 Origanum vulgare

**Kilcullen: Castle Martyn; Co. Kildare [JB: 50]**

1800.10.04 Bryum viridissimum  
 1800.11.06 Bryum viridissimum

**Larne, Co. Antrim**

1797.08.07 Sagina maritima

**Leixlip to Maynooth, Co. Kildare [JB: 47]**

1800.08.20 Galeopsis ladanum

**Limavady to Londonderry, Co. Londonderry**1795.08.06 *Pinguicula lusitanica* [JB: 31]**Londonderry, Co. Londonderry [JB: 46–47]**1795.09.27 *Erodium moschatum* [JB: 31]1800.06.19 *Trichostomum curtum*1800.06.29 *Cerastium quadrifidum*1800.07.03 *Vicia cracca*1800.07.04 *Poa maritima*1800.07.25 *Pinguicula lusitanica***Londonderry, Boom Hall**1800.06.24 *Scirpus palustris***Londonderry, Salmon Fishery**1800.07.28 *Lycopodium selaginoides***Londonderry to Sharon, Co. Donegal**1800.06.19 *Dicranum cerviculatum***Maynooth, Co. Kildare [JB: 47]**1800.08.20 *Festuca pratensis***Ness Falls, Derry, Co. Londonderry**1800.06.30 *Poa***Newtownstewart, Baronscourt, Co. Tyrone**1800.07.22 *Lobelia dortmanna***Prehen, Londonderry, Co. Londonderry**No date *Bromus giganteus*; *Cochlearia anglica*1800.06.04 *Scirpus maritimus*1800.06.22 *Ophrys ovata*; *Poa trinervata*1800.07.04 *Ophrys bifolia*1800.07.06 *Poa trinervata*1800.08.05 *Festuca elatior*; *Phascum nitidum*; *Sagina maritima***Sharon, Co. Donegal**1800.06.19 *Dicranum***White Park Bay, Co. Antrim**No date *Lichen tricolor*1797.12 *Lichen pulchellus*1797.12.20 *Lichen exanthematicus***Without locality**No date *Bryum calcareum*; *Bryum* spp; *Holeus lanatus*; *Orthotrichum diaphanum*; *Pinguicula vulgaris*

**IRISH PLANTS: CULTIVATED****Ballymoney, Co. Antrim: Leslie Hill**1798.03.19      *Taxus baccata***Belfast, Co. Antrim: John Templeton's garden, Cranmore, Malone [JB: 36]**No date              *Centaurea jacea*; *Erica tubiflora*; *Erinus alpinus*; *Silene geniulata*  
1798.05              *Carex stricta*; *Cistus calycinus* [JB: 36]; *Erica australis***Carrickfergus, Co. Antrim: Castle Dobbs**1797                  *Laurus nobilis***Carrickfergus, Mr. Craig's garden [JB: 34]**1797.06.16          *Mesembryanthemum hispidum* [JB: 34 *Drosanthemum hispidum*]  
1797.07              *Amaranthus bicolor*; *Erica*  
1798.05              *Colutea frutescens***Carrickfergus garden**1797                  *Campanula speculum*; *Reseda undulata***Donaghadee, Co. Down: Mr. Arbuckle's garden [JB: 32]**1795.05              *Blechnum*  
1795.05              *Agapanthus umbellatus*; *Cactus pendula* [JB: 31–32]; *Cineraria lanata***Dublin, Co. Dublin: Glasnevin: Botanic Gardens [JB: 55]**1800.09.04          *Bromus inermis*; *Bromus pinnatus*; *Festuca cambrica***SCOTTISH PLANTS: NATIVE****Beinn a'bhuid (Grampians)**1794.08              *Salix herbacea***Beinn Heasgarnich, Argyll [JB: 25]**1793.08              *Bryum*; *Bryum falcatum*; *Carex globularis***Ben Lawers, Argyll [JB: 25]**1793.08              *Bryum extinctorium* §; *Bryum patens*; *Draba incana*; *Myosotis scorpioides* var. *alpina*; *Poa alpina*; *Polytrichum hercynicum*; *Salix*; *Salix reticulata***Clunie, Perthshire [JB: 24–25]**1793.08              *Stachys arvensis***Cortachy, Angus**1792.10              *Trientalis europaea*

**Craighall (near Blairgowrie), Perthshire**  
 1793.08 *Bryum tortuosum*

**Craig "oore", Breadalbane**  
 1794.08 *Salix Myrsinites*

**Dundee**  
 1793 *Centaurea scabiosa*  
 1793.09 *Lichen hypnorum*

**Edinburgh, Midlothian**  
 No date *Vicia sativa*  
 1793.03 *Bryum ovatum*  
 1793.12 *Lichen*  
 1794.03 *Veronica agrestis*  
 1794.04 *Ficaria verna; Veronica arvensis*  
 1794.05 *Draba verna*  
 1794.05 *Oxalis acetosella; Plantago lanceolata*  
 1794.07 *Sisymbrium nasturtium*  
 1794.12 *Sagina apetala*

**Edinburgh, Braid Hill [JB: 19]**  
 1794 *Carex rostrata*  
 1794.06 *Stellaria glauca*  
 1794.07 *Littorella lacustris*

**Edinburgh, Caroline Park**  
 1794.02 *Fucus sanguineus*

**Edinburgh, Caroline Park to Cramond**  
 1794.02 *Conferva*

**Edinburgh, Colinton**  
 1793.05 *Hypnum bryoides*  
 1794.03 *Chrysosplenium oppositifolium*

**Edinburgh, Craiglockart**  
 1794.04 *Aphanes arvensis; Saxifraga tridactylites*

**Edinburgh, Cramond**  
 1794.06 *Salix monandra*

**Edinburgh, Duddingston Loch**  
 1794 *Sisymbrium terrestre*  
 1794.05 *Hippuris vulgaris*  
 1794.07 *Alisma ranunculoides; Epilobium hirsutum*

**Edinburgh, King's Park [JB: 19]**

1793.01	Bryum atro-virens
1793.03	Bryum virens; Lichen trapeziformis
1793.05	Mnium hygrometricum;
1794	Arabis thaliana; Arenaria verna; Geranium pyrenaicum; Lychnis viscaria; Stellaria uliginosa; Turritis hirsuta; Veronica anagallis
1794.01	Bryum tetragonum
1794.02	Phascum piliferum
1794.04	Arabis thaliana; Saxifraga granulata
1794.05	Cardamine hirsuta; Cerastium viscosum; Erysimum alliaria; Menyanthes trifoliata; Pinguicula vulgaris; Saxifraga hypnoides; Valeriana locusta; Vicia lathyroides; Viola canina;
1794.06	Hyoscyamus niger; Lotus corniculatus
1794.07	Epilobium villosum

**Edinburgh, Salisbury Crags**

1793.05	Primula officinalis
1794.04	Cardamine hirsuta
1794.06	Geranium sanguineum
1794.07	Clinopodium vulgare

**Edinburgh to Linton**

1794.06	Primula farinosa
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**Fifeshire**

1793.09	Anagallis arvensis
1794.02	Hypnum clavellatum

**Invercauld, Aberdeenshire [JB: 23]**

1792.08	Anthericum calyculatum
1793.08	Anthericum calyculatum

**Invercauld House, Aberdeenshire [JB: 23]**

1792.08	Juncus uniglumis
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**Leith, Midlothian**

1794.02	Conferva
1794.05	Symphytum tuberosum
1794.07	Plantago coronopus

**Leith, St. Bernard's Spring**

1793.12	Bryum simplex; Bryum undulatum
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**Leith to Musselburgh, Midlothian**

1794.06	Poa retroflexa
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**Lochnagar (Balmoral) [JB: 26]**

1794.08	Salix lapponum
---------	----------------

**Meall Ghaordaidh, Argyll [JB: 25]**

1793.09 Bryum falcatum; Bryum sericeum

**Montrose, Angus**

1792 Salicornia herbacea

1792.10 Aster tripolium

**Pentland Hills**

1793.04 Lichen muscicola

**Queensferry**

1794 Carex flava

1794.07 Astragalus uralensis [JB: 24 = *Oxytropis halleri*]; Carex; Carex dioica; Carex vulpina; Silene nutans

**River Isla [JB: 24]**

1793.08 Bryum pomiforme var *s. weberi*; Salix arbuscula

**Roslin, Midlothian [JB: 19]**

No date Bryum pellucidum

1793.12 Bryum aciculare "; Bryum heteromallum; Bryum pellucidum; Hypnum taxifolium

1794.02 Galanthus nivalis

1794.04 Allium ursinum; Hyacinthus non-scriptus

1794.05 Adoxa moschatellina; Anemone nemorosa; Carex pendula; Chrysosplenium alternifolium; Myosotis scorpioides var. sylvestris; Orobus tuberosus; Prunus avium; Prunus padus; Ranunculus auricomus; Vaccinium myrtillus

**Skye**

1794.09 Eriocaulon septangulare [JB: 28]

**St. Andrews [JB: 24]**

1792.08 Vicia lathyroides

1793.07 Schoenus rufus

1793.08 Phalaris arenaria

**St. Cyrus (north of Montrose)**

1792.09 Vicia hybrida

**Without locality**

no date Hypnum

1793.03 Phascum cuspidatum

**SCOTTISH PLANTS: CULTIVATED**

**Cortachy, Angus: [unnamed] garden**

1794.08 Saxifraga sarmentosa [JB: 28 *Saxifraga stolonifera*]

**Edinburgh: Botanic Garden**

- No date      *Spiraea hypericifolia*
- 1793          *Silene portensis*
- 1793.10      *Basella rubra*
- 1794.10      *Basella rubra*
- 1793.11      *Agrostis verticillatus*; *Hypoxis villosa*; *Lotus tetragonolobus*; *Perilla ocymoides*; *Phleum paniculatum*; *Physalis barbadensis*; *Piper pulchellum*; *Salvia coccinea*;
- 1793.12      *Alyssum halimifolium*; *Cerithe major*; *Rivina humilis*; *Rivina laevis*; *Scoparia dulcis*
- 1794          *Ageratum conyzoides*; *Androsace septentrionalis*; *Anthospermum aethiopicum*; *Calceolaria pinnata*; *Circaea alpina*; *Clusia pulchella*; *Cneorum tricoccum*; *Coffea arabica*; *Cyrilla pulchella*; *Cytisus capitatus*; *Dracocephalum sibericum*; *Euonymus europaeus* var. *tenuifolius*; *Fumaria fungosa*; *Fumaria spicata*; *Geranium anemonifolium*; *Glycine*; *Heuchera americana*; *Hydrophyllum virginicum*; *Hyoscyamus aureus*; *Illecebrum Achyrantha*; *Justicia ecbolium*; *Lantana odorata*; *Lapsana stellata*; *Limodorum tuberosum*; *Lobelia*; *Lobelia coronopifolia*; *Lycium*; *Melia azederach*; *Mimosa circinalis*; *Myrsine africana*; *Ocymum\**; *Ononis nastrix*; *Ornithogalum nutans*; *Panicum*; *Passiflora heterophylla*; *Pelargonium tetragonum*; *Plumbago zeilanica*; *Poa glauca*; *Polygonum Fagopyrum*; *Psoralea bituminosa*; *Reseda Phyteuma*; *Rotboellia incurvata*; *Scilla hyacinthoides*; *Sida*; *Sideritis candicans*; *Solanum*; *Spartium multiflora*; *Spartium radiatum*; *Speillmania\* africana*; *Teucrium fruticans*; *Tradescantia virginica*; *Tripsacum hermaphroditum*; *Urtica dodartii*; *Urtica gracilis*; *Veronica decussata*; *Xylophylla falcata*
- 1794.01      *Andromeda calyculata*; *Poa alpina*
- 1794.02      *Cactus pendula*; *Celsia occidentalis*; *Solanum*
- 1794.03      *Amygdalus communis*; *Anemone hepatica*; *Anemone hortensis*; *Arabis alpina*; *Buxus sempervirens*; *Cynoglossum omphalodes*; *Daphne laureola*; *Daphne mezereum*; *Glycine rubicunda* [**JB: 28** *Kennedya rubicunda*]; *Helleborus foetidus*; *Myrica gale*; *Pulmonaria officinalis* var. *flore albo*; *Saxifraga crassifolia*
- 1794.04      *Amygdalus nana*; *Andromeda polifolia* var. *angustifolia*; *Aquilegia canadensis*; *Asarum europaeum*; *Erica mediterranea*; *Euonymus latifolius*; *Fritillaria meleagris*; *Fritillaria imperialis*; *Geranium betulinum*; *Hyacinthus racemosus*; *Lamium rugosum*; *Lepidium iberis*; *Leucojum vernalis*; *Mespilus cotoneaster*; *Orobus vernalis*; *Ornithogalum nutans*; *Prunus armeniaca*; *Scilla amoena*; *Scilla hyacinthoides*; *Scrophularia verna*; *Sesleria caerulea*; *Smyrniolum perfoliatum*; *Viburnum tinus*; *Vinca major*
- 1794.05      *Adonis vernalis*; *Alyssum saxatilis*; *Amaranthus*; *Anchusa angustifolia*; *Androsace septentrionalis*; *Begonia nitida*; *Calycanthus floridus*; *Cerastium latifolium*; *Cerastium tomentosum*; *Cheiranthus crysimoides*; *Convallaria majalis*; *Epimedium alpinum*; *Euphorbia dulcis*; *Galeopsis galeobdolon*; *Genista anglica*; *Geranium*

- macrorhizon; *Geranium phaeum*; *Geranium striatum*; *Geum*; *Glycine rubicunda*; *Iberis sempervirens*; *Mespilus amelanchier*; *Mespilus arbutifolia*; *Mespilus canadensis*; *Ornithogalum umbellatum*; *Peltaria alliacea*; *Phlox divaricata*; *Plectranthus fruticosus*; *Polygonum viviparum*; *Potentilla rupestris*; *Prunus pensylvanica*; *Pulmonaria virginica*; *Rhodora canadensis*; *Robinia caragana*; *Rosmarinus officinalis*; *Saxifraga rotundifolia*; *Scrophularia peregrina*; *Silene portensis*; *Sinapis laevigata*; *Solanum*; *Spiraea*; *Staphylea pinnata\**; *Stellaria nemorum*; *Vaccinium uliginosum*; *Vaccinium vitis-idaea*; *Viburnum lantana*
- 1794.06 *Aira canescens*; *Buddleia globosa*; *Cornus sanguinea*; *Cytisus sessilifolius*; *Dracocephalum rufianum*; *Erysimum cheiranthoides*; *Euonymus europaeus* var. *ternifolius*; *Hippocrepis comosa*; *Hypericum reflexum*; *Oenothera pumila*; *Ptelea trifoliata*; *Salsola fruticosa*; *Samolus valerandi*; *Scrophularia scorodonia*; *Sideritis hirsuta*; *Spartium decumbens*; *Spartium radiatum*; *Tamarix germanica*; *Viola grandiflora*; *Zanthoxylon clava-herculis*
- 1794.06.27 *Prunus lusitanica*
- 1794.07 *Alyssum incanum*; *Aralia racemosa*; *Astragalus cicer*; *Colutea cruenta*; *Cynosurus echinatus*; *Echium*; *Eclipta*; *Haloragis Cercodea*; *Hermannia denudata*; *Hyoseris lucida*; *Jasminum Sambac*; *Malva*; *Melilotus glaucus*; *Melilotus Italicus*; *Milium paradoxum*; *Monarda didyma*; *Nolana prostrata*; *Oxalis stricta*; *Prasium majus*; *Prenanthes purpurea*; *Psoralea corylifolia*; *Rubia peregrina*; *Scolymus hispanica*; *Scorzonera picroides*; *Solanum nigrum* var. *indicum* ?; *Sonchus floridanus*; *Stipa juncea*; *Telephium Imperati*; *Thlaspi arvense*; *Vicia Narbonensis*; *Zinnia pauciflora*
- 1794.09 *Cardiospermum halicacabum*; *Chelone glabra*; *Cistus salicifolius*; *Hedysarum bupleurifolium*; *Justicia malabarica*; *Molucella laevis*; *Phyllanthus* ?; *Sida asiatica*
- 1794.10 *Achania Malvaviscus\**; *Arbutus unedo*; *Asphodelus fistulosus*; *Aster Novae-angliae*; *Cannarina campanula*; *Celsia Arcturus*; *Cestrum diurnum*; *Clethra alnifolia*; *Crotollaria retusa\**; *Galenia africana*; *Grewia occidentalis*; *Hedysarum gangeticum*; *Illecebrum lanatum* var.; *Indigofera*; *Lobelia* sp.; *Lobelia syphilitica*; *Magnolia glauca*; *Medeola asparagoides*; *Oenothera rosea*; *Panicum miliaceum*; *Panicum sericeum*; *Pelargonium crispum*; *Pentapetes phoenicea*; *Phlox paniculata*; *Phyllis ericoides*; *Phytolacca*; *Triumfetta triloba*; *Verbena Aubletia*; *Xeranthemum annuum*
- 1794.11 *Coronilla glauca*; *Coronilla valentina*; *Hermannia alnifolia*; *Panicum crus-corvi*; *Scrophularia peregrina*; *Sida*
- 1794.12 *Lepidium iberis*; *Lobelia "cliffordiana"*; *Oenothera rosea*; *Sida*
- 1794.12.30 *Indigofera*
- 1795.01 *Myrtus*; *Solanum*
- 1795.03 *Glycine coccinea* ; *Justicia ecbolium*
- 1795.03.10 *Glycine bimaculata*

**Edinburgh, Mr. Dickson's garden, Leith Walk**

1794.04 Hyacinthus Muscari

**Edinburgh, Dickson's Nursery, Leith Walk [JB: 19, 33]**

No date Veronica saxatilis

1794 Bupthalmum grandiflorum; Carex capillaris; Cerastium arvense; Cistus appeninus; Draba incana; Erica Daboeci; Kalmia angustifolia; Juncus triglumis [JB: 25]; Kalmia glauca; Lepidium alpinum; Oxalis incarnata; Passerina filiformis; Phlox glaberrima; Pulmonaria maritima; Scandix cerefolium; Sedum dasyphyllum; Sibthorpia europaea; Silene conica; Silene orchidea; Uvularia amplexicaulis; Veronica alpina; Viola "montana"

1794.03 Anemone appenina

1794.04 Arabis alpina varietas; Arabis hispida; Clutia alaternoides foemina; Diosma capitatum; Dirca palustris; Erica; Hyacinthus muscari; Sanguinaria canadensis; Tussilago alpina

1794.05 Arabis hispida; Asperula laurina; Comptonia asplenifolia; Erodium trilobatum; Euphorbia Esula; Euphorbia lathyrus; Fothergilla alnifolia; Kalmia glauca; Ledum buxifolium; Ledum latifolium; Ledum palustre; Lonicera media; Medicago arborea; Mitella diphylla; Polemonium reptans; Prunus; Salix lapponum; Salix myrsinites; Sibbaldia procumbens; Silene nutans [JB: 28]; Viola striata

1794.06 Cineraria maritima; Genista germanica; Genista italica; Geranium lividum; Prunus Verticillata; Sedum anglicum; Viola cucullata

1794.07 Achillea alpina; Achillea macrophylla; Aster Miser?; Ceanothus americanus; Cerastium aquaticum; Cheiranthus tricuspидatus; Chelidonium hybridum; Ornithopus compressus; Phlox undulata; Plantago loefflingii; Rudbeckia fulgida; Silene behen; Vicia hybrida

1794.09 Vicia bithynica; Vicia lutea

1794.10 Aster

1797.01 Celastrus buxifolius; Chironia linoides; Erica spp; Erica australis; Erica capitata; Erica curviflora; Erica parviflora; Erica pubescens; Erica ramentacea; Genista candicans; Hypericum coris; Philadelphus scoparius; Polycarpum tetraphyllum; Ruta chalepensis

1797.02 Helleborus hyemalis; Helleborus niger

**Edinburgh, Leslie & Co. Nursery, Bonniton Road, Broughton**

1794 Diosma ericoides

1794.06 Bubon gummiferum; Diosma ericoides; Erodium ciconium

1794.07 Hypericum monogynum; Jasminum humile [JB: 28]

**Edinburgh, Mrs Scot's garden [JB: 28]**

1794.06 Cytisus foliolosus [JB: 28 Adenocarpus foliolosus]

**Edinburgh, Dr. Walker's garden, Colinton [JB: 19, 28]**

1794 Anthericum liliastrum; Brassica monensis; Phlox suaveolens; Serratula alpina; Veronica fruticulosa [JB: 28]

1794.03 Cardamine trifolia; Scilla bifolia [JB: 28]

- 1794.10 "Datisca cannabina"; Galium spurium; Lysimachia quadrifolia; Salix  
argentea [*JB: 28* but there stated to have been seen in Dickson's  
Nursery]; Salix lucida  
1794.11 Salix ligustrifolia [*JB: 28*]; Salix retusa

**Edinburgh, [unnamed] garden**

- 1794.05 Hesperis matronalis

**Morden (near Edinburgh) [*JB: 28*]**

- 1794 Anagallis Monelli; Canella alba; Convallaria japonica; Corypha  
umbraculifera [*JB: 28*]; Dracaena ensifolia; Malva spicata; Passiflora  
serratifolia; Pelargonium scabrum; Rubus arcticus; Tradescantia  
discolor  
1794.06 Salvia trilobata

**Roslin Castle: garden of the inn: Midlothian [*JB: 28*]**

- 1794.05 Syringa vulgaris [*JB: 28*]

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